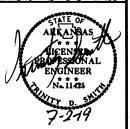


DATE REVISED	DATE FLMED	DATE REVISED	DATE FILMED	FED.RO. DIST.MO.	STATE	FED.AD PROJNO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				J08	NO.	061574	2	16

2 INDEX OF SHEETS AND STANDARD DRAWINGS



INDEX OF SHEETS

SHEET NO. TITLE

ROADWAY STANDARD DRAWINGS

	DRWG.NO.
1TITLE SHEET	CG-1 CURBING DETAILS
2 INDEX OF SHEETS AND STANDARD DRAWINGS	PM-1 PAVEMENT MARKING DETAILS
3 GOVERNING SPECIFICATIONS AND GENERAL NOTES	SD-5 CONTROLLER CABINET UTILITY DRAV
4 TEMPORARY EROSION CONTROL DETAILS	SD-6 HEAVY DUTY PULL BOX
5MAINTENANCE OF TRAFFIC DETAILS	SD-8 SIGNAL HEAD PLACEMENT
6 PERMANENT PAVEMENT MARKING DETAILS	SD-9SERVICE POINT
7 QUANTITIES	SD-11 STEEL POLE WITH MAST ARM
8 SUMMARY OF QUANTITIES AND REVISIONS	TC-1 STANDARD TRAFFIC CONTROLS FOR
9 - 10 SURVEY CONTROL DETAILS	TC-2 STANDARD TRAFFIC CONTROLS FOR
11TRAFFIC SIGNAL NOTES	TC-3 STANDARD TRAFFIC CONTROLS FOR
12 TRAFFIC SIGNAL QUANTITIES	TEC-1 TEMPORARY EROSION CONTROL DE
13 - 16 SIGNALIZATION PLAN SHEETS	WR-1 WHEELCHAIR RAMPS NEW CONSTRU

DRWG.NO	D. TITLE	DATE
CG-1	_ CURBING DETAILS	11-29-07
PM-1	PAVEMENT MARKING DETAILS	06-01-17
SD-5	_ CONTROLLER CABINET UTILITY DRAWER	09-12-13
SD-6	_ HEAVY DUTY PULL BOX	11-16-17
SD-8	SIGNAL HEAD PLACEMENT	12-08-16
SD-9	_ SERVICE POINT	11-16-17
SD-11	_ STEEL POLE WITH MAST ARM	11-16-17
TC-1	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	04-13-17
TC-2	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	09-02-15
TC-3	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	07-25-19
TEC-1	_ TEMPORARY EROSION CONTROL DEVICES	11-16-17
WR-1	WHEELCHAIR RAMPS NEW CONSTRUCTION AND ALTERATIONS	11-10-05

LOCATION: HWY. 270B/LAKESIDE DR.
CITY: HOT SPRINGS

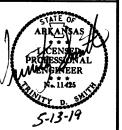
COUNTY: GARLAND
DISTRICT: 06 SCALE: N/A

/A DRAWN BY: GWE

DATE: 05-06-19 FILE NAME: t061574_job.dgn

DATE REVISED	DATE FLMED	DATE REVISED	DATE FILMED	FED.RO. DIST.NO.	STATE	FED.AID PROJUNO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				J08	NO.	061574	3	16

2 COVERNING SPECIFICATIONS AND GEN. NOTES



GENERAL NOTES

- 1. ALL PIPE LINES, POWER, TELEPHONE, AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.
- 2. ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE OWNERS UNLESS OTHERWISE PROVIDED.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING U. S. MAILBOXES WITHIN THE PROJECT LIMITS IN SUCH A MANNER THAT THE PUBLIC MAY RECEIVE CONTINUED MAIL SERVICE. PAYMENT WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS BID ITEMS.
- 4. ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.
- 5. ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE SPARED AS DIRECTED BY THE ENGINEER. CARE AND DISCRETION SHALL BE USED TO INSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.
- 6. THE SEQUENCE AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS IS A GENERAL OUTLINE FOR THE CONSTRUCTION OF THIS PROJECT, AND IN NO WAY IS IT INTENDED TO COVER EVERY ITEM IN THE PROJECT. ITEMS NOT CRITICAL TO THE CONSTRUCTION SEQUENCE MAY BE CONSTRUCTED IN ANY STAGE AS APPROVED BY THE RESIDENT ENGINEER.
- 7. ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM NO. 210 - UNCLASSIFIED EXCAVATION.
- 8. THE EXISTING ASPHALT PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE OF THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS:

NUMBER	TITLE
ERRATA	_ ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273_	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273_	_ SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273_	_ SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273_	_ SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
	_ SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
	_ SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
	_ SUPPLEMENT - WAGE RATE DETERMINATION
	_ CONTRACTOR'S LICENSE
	_ DEPARTMENT NAME CHANGE
102-2	_ ISSUANCE OF PROPOSALS
	_ LIQUIDATED DAMAGES
	_ WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
	_ QUALITY CONTROL AND ACCEPTANCE
	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
634-1	
	_ TRAFFIC CONTROL FACILITIES
	_ ACTUATED CONTROLLER
	_ AIRPORT CLEARANCE REQUIREMENTS
	_ BIDDING REQUIREMENTS AND CONDITIONS
	_ CABINET DRAWER ASSEMBLY
	_ CARGO PREFERENCE ACT REQUIREMENTS
	_ DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES
	_ EDGE CARD VIDEO PROCESSOR
	_ ELECTRICAL CONDUCTORS FOR LUMINAIRES
_	_ ELECTRICAL CONDUCTORS-IN-CONDUIT
	_ GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
	_ LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
	_ LED LUMINAIRE ASSEMBLY (BUG U0 TYPE)
	_ LED TRAFFIC SIGNAL HEAD _ MANDATORY ELECTRONIC CONTRACT
	_ MANDATORY ELECTRONIC CONTRACT _ MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
	_ MANDATORY ELECTRONIC DOCUMENT SUBMITTAL _ RETROREFLECTIVE BACKPLATES
_	
	_ SERVICE POINT ASSEMBLY (TRAFFIC CONTROL DEVICES)
	_ STREET NAME SIGN (MAST ARM MOUNTED)
	_ SYSTEM LOCAL CONTROLLER _ UTILITY ADJUSTMENTS
	_ UIDEO DETECTOR (COLOR)
JUB 00 13/4_	_ VIDEO DE TECTOR (COLOR)

LOCATION: CI TY:

HWY. 270B/LAKESIDE RD.

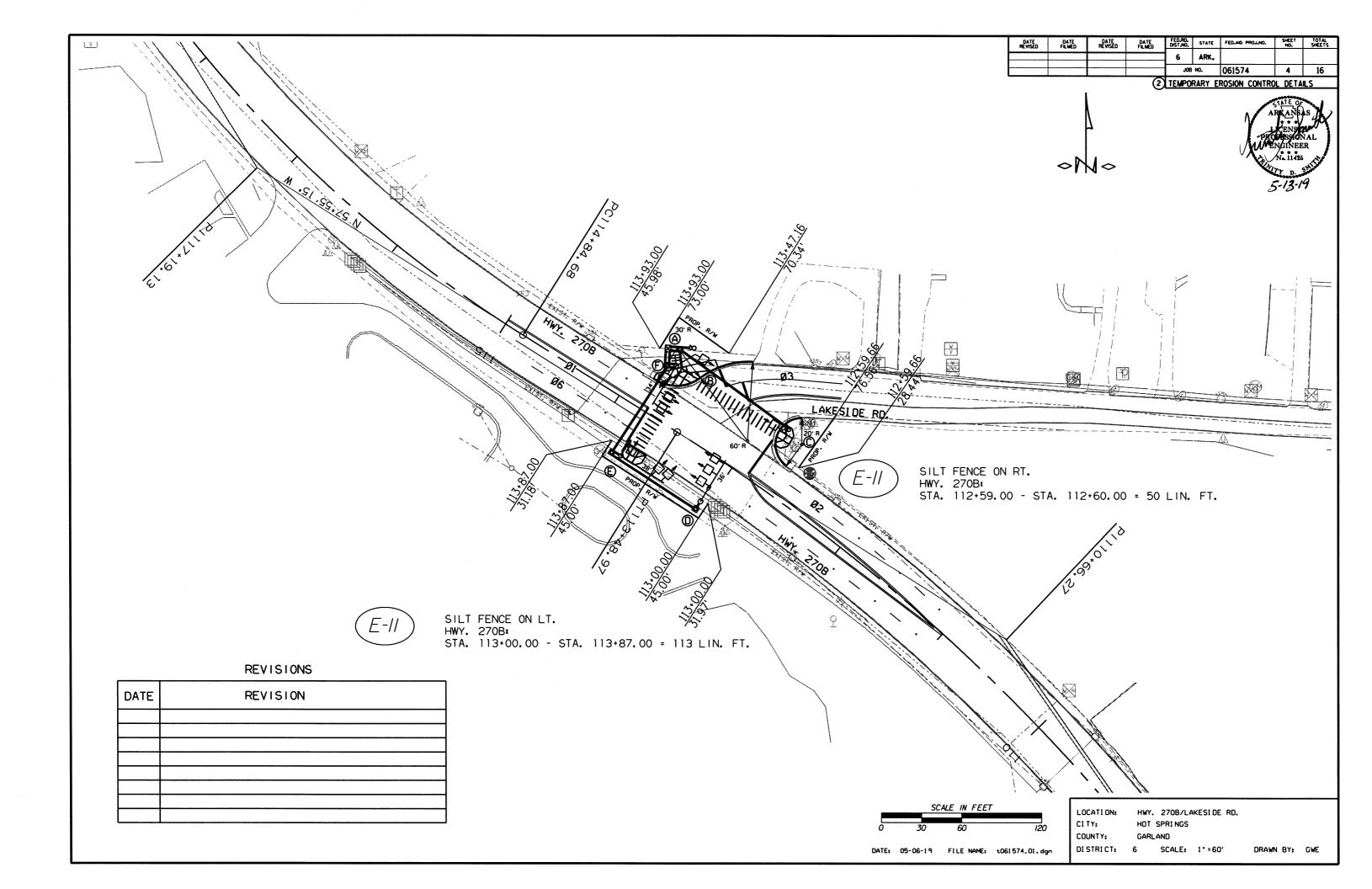
HOT SPRINGS

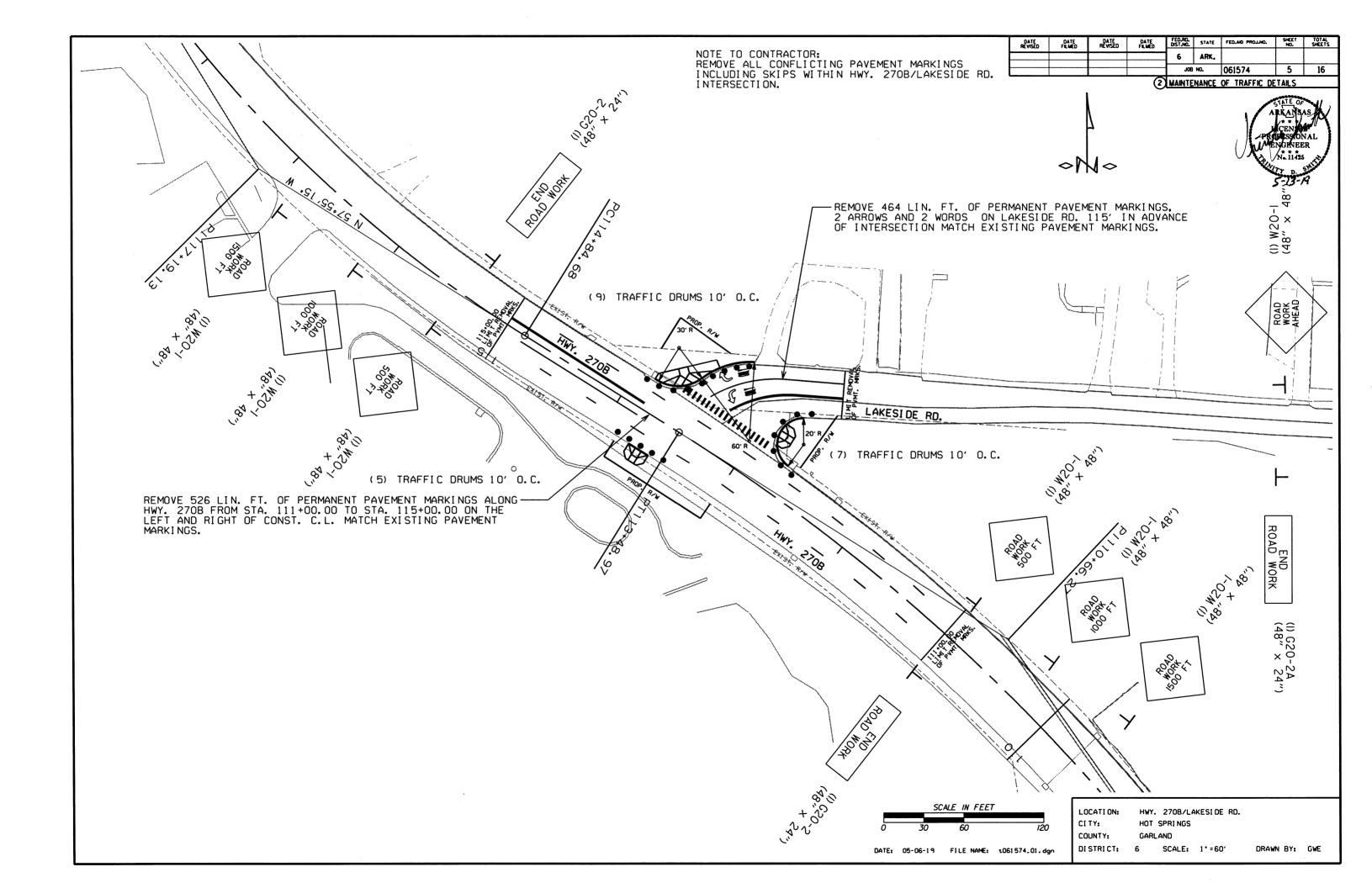
COUNTY:

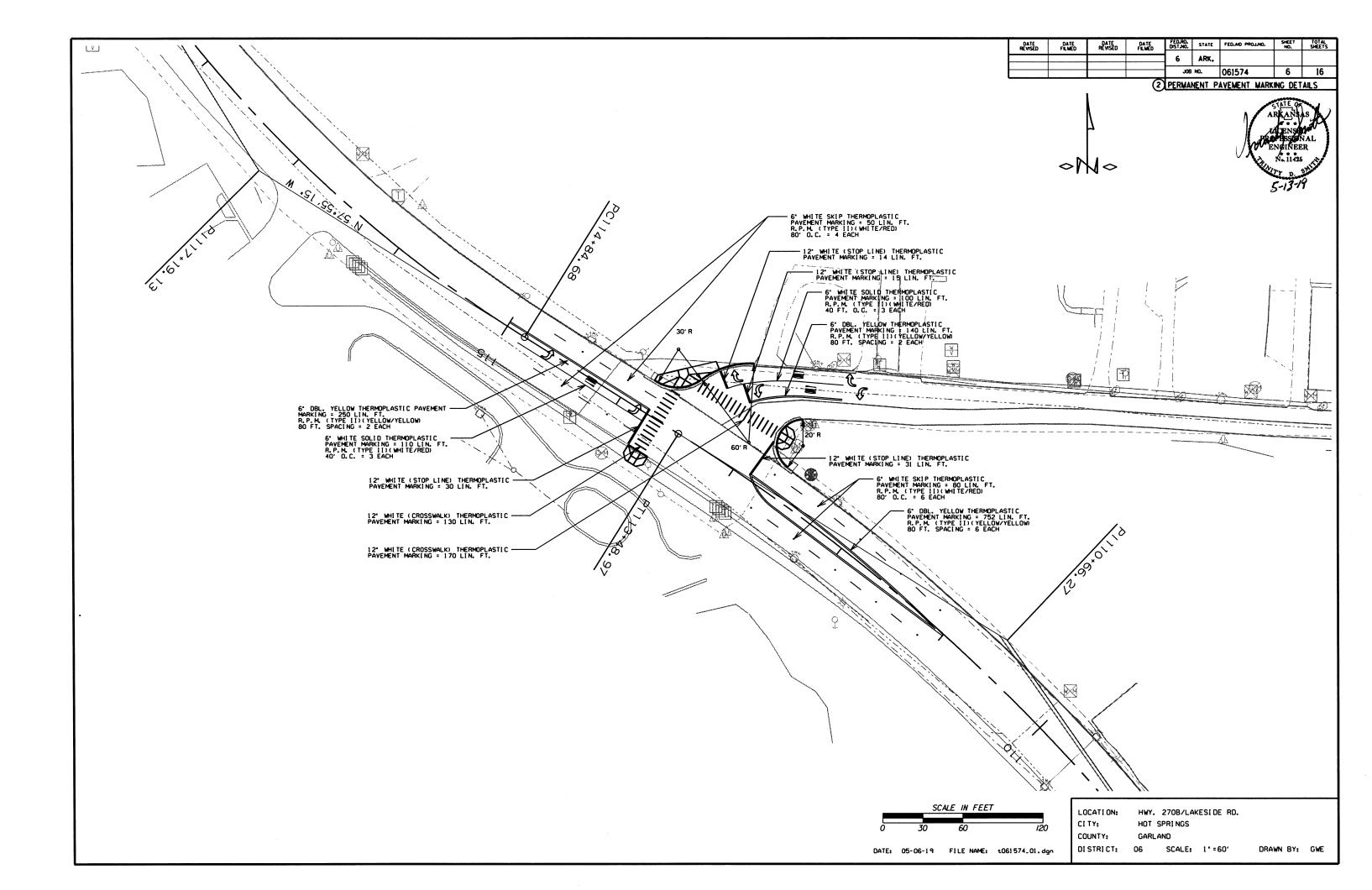
GARLAND DI STRI CT: 06 SCALE: N/A

DRAWN BY: GWE

DATE: 05-06-19 FILE NAME: t061574_job.dgn







CONSTRUCTION PAVEMENT MARKINGS AND PERMANENT PAVEMENT MARKINGS

DESCRIPTION	REMOVAL OF PERMANENT PAVEMENT	PERMANENT PERMANENT PAVEMENT		RAISED PAVEMENT MARKERS		THERMOPLASTIC PAVEMENT MARKING				;
	MARKINGS			TYPE II	TYPE II	6"		12"	WORDS	ARROWS
		WORDS	ARROWS	(WHITE/RED)	(YELLOW/YELLOW)	WHITE	YELLOW	WHITE	WOKDS	AKKOWS
	LIN. FT.	EA	CH	EA	CH		LIN. FT.		EA	CH
REMOVAL OF PERMANENT PAVEMENT MARKINGS	990									
REMOVAL OF PERMANENT PAVEMENT MARKINGS (WORDS)		2								
REMOVAL OF PERMANENT PAVEMENT MARKINGS (ARROWS)			2							
									1	
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED)				16						
RAISED PAVEMENT MARKERS TYPE II (YELLOW/YELLOW)					10					
THERMOPLASTIC PAVEMENT MARKING WHITE (6")			-			340				
THERMOPLASTIC PAVEMENT MARKING YELLOW (6")						0-10	1142			
THERMOPLASTIC PAVEMENT MARKING WHITE (12")		1						390		
THERMOPLASTIC PAVEMENT MARKING (WORDS)									3	
THERMOPLASTIC PAVEMENT MARKING (ARROWS)										6
TOTALS:	990	2	2	16	10	340	1142	390	3	6

DATE REVISED	DATE FLMED	DATE REVISED	DATE FILMED	FED.RO. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				J08	NO.	061574	7	16
			2	OUANTI	TIES			

PROJESTIONAL WEIGINEER N. 11425

REMOVAL AND DISPOSAL OF FENCE

STATION	STATION	LOCATION	FENCE
		200AHOR	LIN. FT.
113+00	113+87	HWY. 270B ON LT.	87
OTAL:	1		87

EROSION CONTROL

			PERMANENT	ROSION CONTROL	TEMPORARY EROSION CONTRO		
STATION	STATION	LOCATION	WATER	SOLID SODDING	SILT FENCE	*SEDIMENT REMOVAL & DISPOSAL	
			1 .		(E-11)		
			M.GAL.	SQ.YD.	LIN. FT.	CU. YD.	
ENTIRE	PROJECT	HWY. 270B	5.0	393	163	6	
*ENTIRE PRO	JECT TO BE	USED IF AND WHERE DIRECTED BY THE ENGINEER.	1.3	100	40	1	
TOTALS:	l	I	6.3	493	203	7	

BASIS OF ESTIMATE:

NATER......12.6 GAL. / SQ. YD. OF SOLID SODDING

NOTE: THE TEMPORARY EROSION CONTROL DEVICES SHOWN ABOVE AND ON THE PLANS SHALL BE INSTALLED IN SUCH A SEQUENCE AS TO DETER EROSION AND SEDIMENTATION ON U.S. WATERWAYS AS EXPLAINED BY THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT.

*QUANTITIES ESTIMATED. SEE SECTION 104.03 OF THE STD. SPECS. **REMOVAL AND DISPOSAL OF ITEMS**

STATION	STATION	LOCATION	CURB AND GUTTER	WALKS
			LIN. FT.	SQ. YD.
112+63.00	112+87.00	HWY. 270B ON RT.	50	16
113+29.50	113+88.40	HWY. 270B ON RT.	80	
113+59.00	113+74.40	HWY. 270B ON LT.	17	
TOTALS:	<u> </u>	<u> </u>	147	16

ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	END OF JOB	MAXIMUM NUMBER REQUIRED	TOTAL SIGN	IS REQUIRED	TRAFFI DRUMS
			LIN. FT EACH		NO.	SQ. FT.	EACH
W20-1	ROAD WORK 1500 FT.	48"x48"	2	2	2	32.0	
W20-1	ROAD WORK 1000 FT.	48"x48"	2	2	2	32.0	
W20-1	ROAD WORK 500 FT.	48"x48"	2	2	2	32.0	
W20-1	ROAD WORK AHEAD	48"x48"	1	1	1	16.0	
G20-2	END ROAD WORK	48"x24"	3	3	3	24.0	
	TRAFFIC DRUMS		21	21			21
OTALS:				L		136.0	21

CONCRETE COMBINATION CURB AND GUTTER

	CONTONE	L COMBINATION COND AND GO	1-11
STATION	STATION LOCATION		TYPE A (1' 6")
			LIN. FT.
112+68.70	112+83.20	HWY. 270B ON RT.	19
112+78.59	112+86.23	HWY. 270B ON RT.	14
113+29.51	113+48.09	HWY. 270B ON RT.	27
TOTAL:			60

DATE: 09-11-19 FILE NAME: t061574_01.dgn

WHEELCHAIR RAMPS

STATION	LOCATION	TYPE 1	TYPE 4		
		SQ	SQ.YD.		
112+78.00	HWY. 270B ON RT.		19.0		
113+67.86	HWY. 270B ON LT.		19.0		
113+71.00	HWY. 270B ON RT.	57.0			
TOTALS:		57.0	38.0		

EARTHWORK

		LANTINON		
			UNCLASSIFIED	1
STATION	STATION	LOCATION / DESCRIPTION	EXCAVATION	EMBANKMENT
			CU.	YD.
ENTIRE	PROJECT	HWY. 270B	30	15
TOTALS:	L		30	15

NOTE: EARTHWORK QUANTITIES SHOWN ABOVE SHALL BE PAID AS PLAN QUANTITY.

LOCATION: HWY. 270B/LAKESIDE RD.
CITY: HOT SPRINGS

COUNTY: HOT SPRINGS
COUNTY: GARLAND

DISTRICT: 06 SCALE: N/A

DRAWN BY: GWE

SUMMARY OF QUANTITIES

	SUMMENT OF QUANTITIES		·····
ITEM NUMBER	ITEM	QUANTITY	UNIT
202	REMOVAL AND DISPOSAL OF CURB AND GUTTER	147	LIN. FT.
202	REMOVAL AND DISPOSAL OF FENCE	87	LIN. FT.
202	REMOVAL AND DISPOSAL OF WALKS	16	SQ. YD.
210	UNCLASSIFIED EXCAVATION	30	CU. YD.
210	COMPACTED EMBANKMENT	15	CU. YD.
601	MOBILIZATION	1.00	LUMP SUM
603	MAINTENANCE OF TRAFFIC	1.00	LUMP SUM
SS & 604	SIGNS	136	SQ. FT.
SS & 604	TRAFFIC DRUMS	21	EACH
604	REMOVAL OF PERMANENT PAVEMENT MARKINGS	990	LIN. FT.
604	REMOVAL OF PERMANENT PAVEMENT MARKINGS (WORDS)	2	EACH
604	REMOVAL OF PERMANENT PAVEMENT MARKINGS (ARROWS)	2	EACH
620	WATER	6.3	M. GAL.
621	SILT FENCE	203	LIN. FT.
621	SEDIMENT REMOVAL AND DISPOSAL	7	CU. YD.
624	SOLID SODDING	493	SQ. YD.
SS & 634	CONCRETE COMBINATION CURB AND GUTTER (TYPE A) (1' 6")	60	LIN. FT.
635	ROADWAY CONSTRUCTION CONTROL	1.00	LUMP SUM
641	WHEELCHAIR RAMPS (TYPE 1)	57	SQ. YD.
641	WHEELCHAIR RAMPS (TYPE 4)	38	SQ. YD.
SP & 701	SYSTEM LOCAL CONTROLLER TS2-TYPE 2 (8 PHASES)	1	EACH
SP & 701	LOCAL RADIO WITH ANTENNA	1	EACH
		100	
SP OD 6 700	ANTENNA CABLE (TYPE 6)		LIN. FT.
SP & 706	TRAFFIC SIGNAL HEAD, LED, (3 SECTION, 1 WAY)	5	EACH
SP & 706	TRAFFIC SIGNAL HEAD, LED, (4 SECTION, 1 WAY)	2	EACH
SP & 707	COUNTDOWN PEDESTRIAN SIGNAL HEAD, LED	4	EACH
708	TRAFFIC SIGNAL CABLE (5C/14 A.W.G.)	712	LIN. FT.
708	TRAFFIC SIGNAL CABLE (7C/14 A.W.G.)	116	LIN. FT.
708	TRAFFIC SIGNAL CABLE (20C/14 A.W.G.)	322	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/8 A.W.G., E.G.C.)	485	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/12 A.W.G., E.G.C.)	140	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/6 A.W.G.)	20	LIN. FT.
SP	ELECTRICAL CONDUCTORS FOR LUMINAIRES	462	LIN. FT.
709	GALVANIZED STEEL CONDUIT (2")	20	LIN. FT.
710	NON-METALLIC CONDUIT (2")	40	LIN. FT.
710	NON-METALLIC CONDUIT (3")	410	LIN. FT.
711	CONCRETE PULL BOX (TYPE 1)	2	EACH
711	CONCRETE PULL BOX (TYPE 2 HD)	4	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (34')	11	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (36')	1	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (38')	1	EACH
SP	LED LUMINAIRE ASSEMBLY	3	EACH
SS & 715	TRAFFIC SIGNAL PEDESTAL POLE WITH FOUNDATION	3	EACH
SP	SERVICE POINT ASSEMBLY (2 CIRCUITS)	1	EACH
719	THERMOPLASTIC PAVEMENT MARKING WHITE (6")	340	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING WHITE (12")	390	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING YELLOW (6")	1142	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING (WORDS)	3	EACH
719	THERMOPLASTIC PAVEMENT MARKING (ARROWS)	6	EACH
721	RAISED PAVEMENT MARKERS (TYPE II)	26	EACH
SP	18" STREET NAME SIGN	3	EACH
SP & 733	VIDEO DETECTOR (CLR)	6	EACH
733	VIDEO CABLE	801	LIN. FT.
733	VIDEO MONITOR (CLR)	1	EACH
SP & 733	VIDEO PROCESSOR, EDGE CARD (2 CAMERA)	4	EACH
SP & 733	VEHICLE DETECTOR RACK (16 CHANNEL)	1	EACH
		İ	

REVISIONS

DATE	REVISION	SHEET NUMBER

DATE DATE PLMED PATE REVISED FLMED DATE FEMAL STATE FED.AD PROLING. SMEET TOTAL SMEETS

6 ARK.

JOB NO. 061574 8 16

2 SUMMARY OF QUANTITIES AND REVISIONS

ARKANAS

ARKANAS

CENSED

PRASESSONAL

ENGINEER

N. 11425

9-12-19

LOCATION: HWY. 270B/LAKESIDE RD. CITY: HOT SPRINGS

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COUNTY: GARLAND

DISTRICT: 06 SCALE: N/A DRAW

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RO. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB	NO.	061574	9	16

(2) SURVEY CONTROL DETAILS



SURVEY CONTROL COORDINATES

Project Name: s061574

Date: 9/5/2018

Coordinate System: ARKANSAS STATE PLANE -SOUTH ZONE BASED ON GPS CONTROL, PROJECTED TO GROUND.

Units: U.S. SURVEY FOOT

Point. Name	Northing	Easting	Elev	Feature	Description
1	1973246. 9766	1003038.1127	521.18	CTL	ARDOT STD. MON. STAMPED PN: 1
2	1973635. 6200	1002818. 2111	525. 60	CTL	ARDOT STD. MON. STAMPED PN: 2
3	1973885. 5548	1002390.4398	547. 11	CTL	ARDOT STD. MON. STAMPED PN: 3
4	1974214.2376	1002061.9280	549.02	CTL	ARDOT STD. MON. STAMPED PN: 4
5	1974838.8138	1001683. 3044	531.00	CTL	ARDOT STD. MON. STAMPED PN: 5
6	1973875. 2951	1002735.6399	536. 54	CTL	ARDOT STD. MON. STAMPED PN: 6
7	1973854.5095	1003063, 5236	528, 26	CTL	ARDOT STD. MON. STAMPED PN: 7
100	1968180. 2602	1002814.1178	455.07	GPS	ARDOT GPS MON 260018A
101	1982810, 4364	1011162. 7919	452. 42	GPS	ARDOT GPS MON 260020A
900	1973613.0353	1002837.6366	525. 18	TBM	SOUARE CUT IN NE CORNER OF CATCH BASIN
901	1974668. 6289	1001789.6395	537. 28	TBM	SQUARE CUT IN NW CORNER CATCH BASIN

"Note - Rebar and Cap - Standard - 5/8' Rebar with 2' Aluminum Cap stamped
"(standard markings common to all caps), or as indicated
(other markings indicated in the point description of the individual point).
ALL DISTANCES ARE GROUND.
USE CAF = 1.0 FOR STAKEOUT FOR THIS PROJECT.
A PROJECT CAF OF 0.9999245256 HAS BEEN USED TO COMPUTE THE ABOVE GROUND COORDINATES.
THIS CAF IS INTENDED FOR USE WITHIN THE PROJECT LIMITS.
GRID DISTANCE = GROUND DISTANCE X CAF.
GRID COORDINATES ARE STORED UNDER FILE NAME s061574gi.ctl
HORIZONTAL DATUM* NAD 83 (1997)
VERTICAL DATUM* NAVD 88 POSITIONAL ACCURACY THIRD ORDER, UNLESS SPECIFIED OTHERWISE
AT A SPECIFIC POINT.

REFERENCE POINTS (1500 SERIES) ARE TO BE USED TO ESTABLISH CONTROL IF THE PRIMARY CONTROL POINTS LISTED ABOVE HAVE BEEN DESTROYED. REFERENCE POINTS ARE NOT TO BE USED FOR VERTICAL CONTROL

BASIS OF BEARING:
ARKANSAS STATE PLANE GRID BEARINGS - 0302-SOUTH ZONE
DETERMINED FROM GPS CONTROL POINTS: 880088-880088A
CONVERGENCE ANGLE: 0-34-33 LEFT AT LAT N 34-28-47 LON W 093-01-43
GRID AZIMUTH - ASTRONOMICAL AZIMUTH - CONVERGENCE ANGLE.

HWY. 270B

POINT NO.	TYPE	STATION	NORTHING	EASTING
8000	POB	100+00.00	1972808.3935	1003382.7837
8001	PC	107+75.80	1973443.9399	1002937.8649
8003	PT	113+48.97	1973836.1593	1002525.1655
8004	PC	114+84.68	1973908.2353	1002410.1739
8006	PT	119+45.20	1974232.7748	1002089.2303
8007	POE	125+57.56	1974755.2266	1001769.8126

LOCATION:

CI TY:

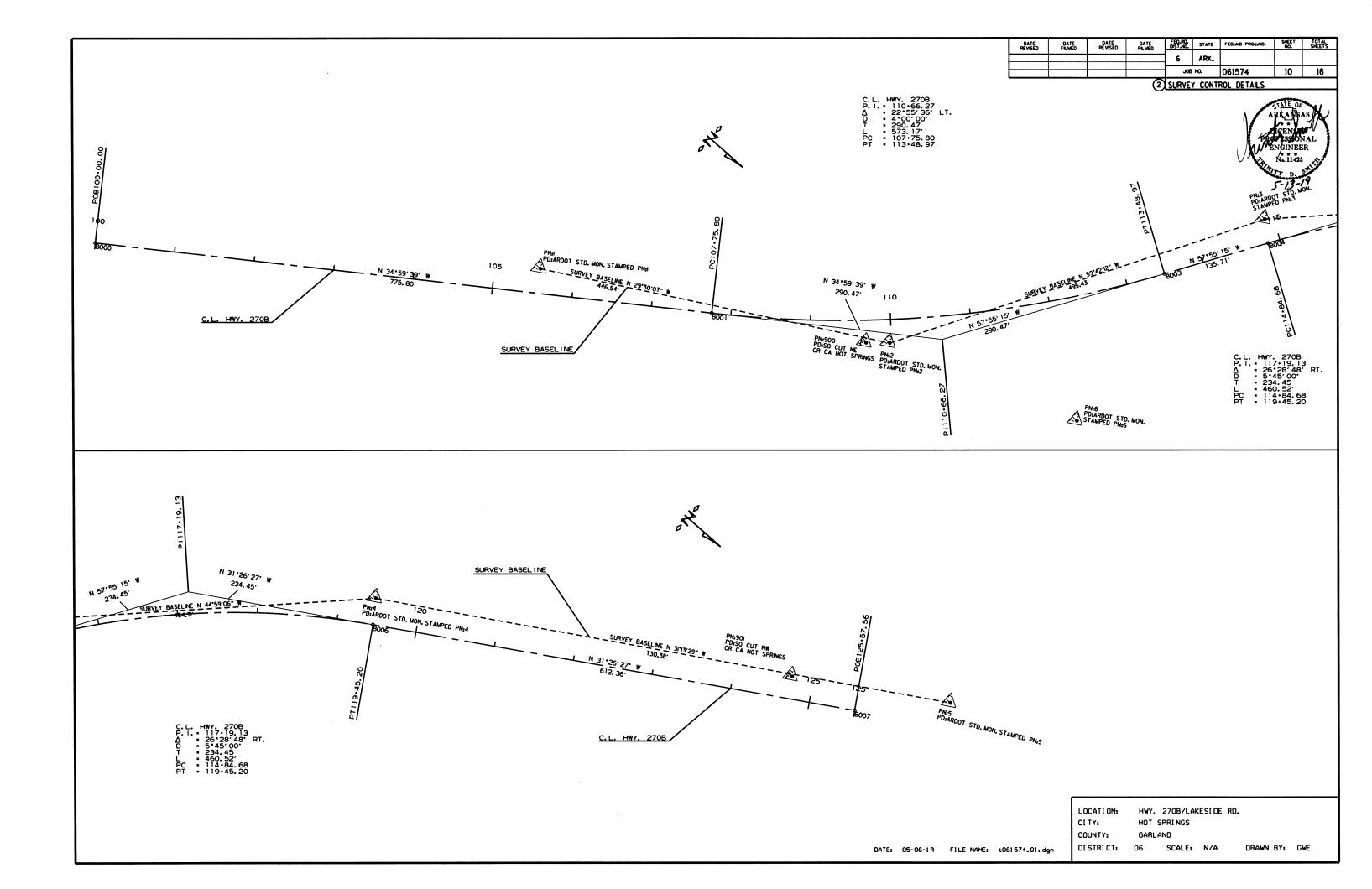
HWY. 270B/LAKESIDE RD. HOT SPRINGS

COUNTY:

GARLAND

DISTRICT: 06 SCALE: N/A DRAWN BY: GWE

DATE: 05-06-19 FILE NAME: t061574_01.dgn

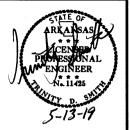


TRAFFIC SIGNAL NOTES:

- 1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE NFPA 70 (2017) NATIONAL ELECTRICAL CODE, NFPA 101 (CURRENT EDITION) LIFE SAFETY CODE, STATE ELECTRICAL CODE AND LOCAL ELECTRICAL CODE.
- 2. EXTEND GREEN EQUIPMENT GROUNDING CONDUCTOR (E.G.C.) FROM GROUND BAR AT MAIN BREAKER TO CONTROL PANEL AND TO FIRST POLE. SOLIDLY BOND E.G.C. TO GROUND LUG OF CONTROL CABINET AND TO POLE GROUND. ENSURE THAT ONLY ONE NEUTRAL-TO-GROUND BOND EXISTS IN THE SYSTEM AND THAT IT IS AT THE MAIN BREAKER.
- 3. ELECTRICAL SERVICE SHALL BE PROVIDED BY THE CITY/COUNTY TO A SERVICE POLE WITH EXTERNAL RAINTIGHT BREAKER (MAIN BREAKER), GALVANIZED STEEL SERVICE RISER, METER LOOP (IF REQUIRED), AND WEATHERHEAD AT A MUTUALLY ACCEPTABLE POINT WITHIN THE RIGHT-OF-WAY. IF THE SERVICE POINT IS OVER 10 FEET FROM THE CONTROLLER, THE CONTRACTOR SHALL PROVIDE AND INSTALL A SEPARATE TWO CIRCUIT EXTERNAL BREAKER (SECONDARY BREAKER) ON OR NEAR THE TRAFFIC SIGNAL CONTROLLER CABINET AND SHALL INSTALL CONDUIT, ELECTRICAL SERVICE WIRE (2c/#6 A.W.G. USE RATED, WITH GROUND TYPICAL), AND PERFORM WIRING TO TAP INTO THE CITYS/ COUNTYS MAIN BREAKER AS PART OF THIS CONTRACT. CONDUIT IS PAID FOR AS A SEPARATE ITEM OF THIS CONTRACT. TWO CIRCUIT BREAKERS, CONSIDERED SUBSIDIARY TO THE CONTROL EQUIPMENT, ARE NEEDED WHERE STREET LIGHTING IS INCLUDED. AS PART OF THE SIGNAL INSTALLATION, STREET LIGHTING CIRCUIT (2c/#12 A.W.G. UF RATED, TYPICAL) SHALL BE KEPT FROM THE CIRCUIT SERVING THE TRAFFIC SIGNAL CONTROL EQUIPMENT FROM THE POINT OF TIE-IN AT THE SECONDARY BREAKER PROVIDED BY THE CONTRACTOR.
- 4. CONTRACTOR SHALL CONNECT A SEPARATE NEUTRAL FOR EACH LOAD SWITCH REPRESENTED ON EACH SIGNAL POLE.
- 5. TRAFFIC CONTROLLER CABINET AND LAYOUT SHALL BE SUCH THAT IT IS NOT NECESSARY TO SHUT DOWN POWER OR REMOVE LOAD SWITCHES IN ORDER TO EASILY TEST OR MODIFY DETECTOR INPUTS TO THE CONTROLLER.
- 6. CONTROLLER CABINET SHALL BE WIRED SUCH THAT DURING FLASH OPERATIONS POWER TO THE LOAD SWITCHES CANNOT BACKFEED TO LOAD SWITCH POWER BUSS.
- 7. ALL PARTS OF THIS INSTALLATION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, STANDARD DRAWINGS AND WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
- 8. CONDUIT INSTALLED UNDER ROADWAY SURFACES SHALL BE INSTALLED BY PUSHING OR BORING METHODS. IF THE ENGINEER DETERMINES THIS IS NOT FEASIBLE, THEN A TRENCHING METHOD AS SHOWN IN THE STANDARD DRAWINGS MAY BE USED.
- 9. TRAFFIC SIGNAL POLES SHALL BE GALVANIZED. BACKPLATES SHALL BE SUPPLIED FOR ALL SIGNAL HEADS.
- 10. PAVEMENT MARKING SHOWN FOR REFERENCE ONLY. SEE PERMANENT PAVEMENT MARKING DETAILS.
- 11. FOUNDATION FOR ALL POLES SHALL BE EXTENDED IF NECESSARY TO ACCOMMODATE THE REQUIREMENTS FOR SIGNAL HEAD CLEARANCE ABOVE ROADWAY ONLY AT LOCATIONS WHERE THE GROUND ELEVATION AT THE POLE IS BELOW THE ELEVATION OF THE ROADWAY (SEE NOTES ON STANDARD DRAWING). PAYMENT WILL BE INCLUDED IN SECTION 714 TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION.
- 12. ALL CONCRETE PULL BOXES SHALL BE (TYPE 2 HD) UNLESS OTHERWISE INDICATED. ALL CONDUIT SHALL BE THREE (3") INCH DIAMETER UNLESS SPECIFIED ON PLANS.
- 13. CONTRACTOR SHALL NOTIFY ALL EXISTING UTILITY OWNERS BEFORE BEGINNING WORK ON THIS PROJECT.
- 14. LUMINAIRE ASSEMBLIES SHALL BE OF THE FULL CUTOFF TYPE.
- 15. HARDWARE INPUTS MAY BE DETERMINED BY SUPPLIER. EACH DETECTOR OUTPUT SHALL INPUT THE CONTROLLER THROUGH A SEPARATE INPUT UNLESS OTHERWISE NOTED AND BE PROGRAMMED TO ACTUATE THE ASSOCIATED PHASE. COMBINATION (COMB.) DETECTORS SHALL ALSO BE PROGRAMMED TO PROVIDE VEHICLE COUNT/OCCUPANCY DATA.
- 16. THE LOCAL RADIO WITH ANTENNA SHALL BE COMPATIBLE WITH THE EXISTING CLOSED LOOP COORDINATION SYSTEM IN THE CITY/COUNTY.
- 17. TO DETERMINE UTILITY CLEARANCES ABOVE THE TRAFFIC SIGNAL POLE, REFER TO THE POLE SCHEDULE FOR VERTICAL SHAFT HEIGHT. WHERE THE POLE SCHEDULE INDICATES THAT A LUMINAIRE ARM WILL BE USED, THIRTY-EIGHT (38') FEET SHOULD BE USED TO DETERMINE UTILITY CLEARANCE ABOVE THE LUMINAIRE ARM. WHERE THE POLE SCHEDULE INDICATES A TRAFFIC SIGNAL POLE WITHOUT A LUMINAIRE ARM, A HEIGHT OF TWENTY-ONE (21') FEET SHOULD BE USED TO DETERMINE UTILITY CLEARANCE ABOVE THE TRAFFIC SIGNAL MAST ARM. AN ADDITIONAL SIX (6') FEET SHOULD BE USED DIRECTLY ABOVE "VIDEO DETECTOR" AT LOCATIONS SHOWN ON THE SIGNAL PLANS.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RO. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				J08	NO.	061574	11	16

2 TRAFFIC SIGNAL NOTES



- 18. THE DESIRABLE MINIMUM DISTANCE FROM THE FACE OF ROADWAY CURB OR SHOULDER EDGE TO THE FACE OF NON-BREAKAWAY POLE OR OBSTRUCTION IS SIX (6') FEET. REFER TO TRAFFIC SIGNAL PLANS FOR SPECIFIC LOCATION OF POLES, CONTROLLER AND ANY OTHER NON-BREAKAWAY OBSTRUCTIONS. REFER TO "DESIGN PARAMETERS, MINIMUM CLEAR ZONE DISTANCE" FOR MINIMUM DISTANCE FROM THE EDGE OF TRAVELED WAY TO THE FACE OF A NON-BREAKAWAY POLE OR OBSTRUCTION. TRAFFIC SIGNAL POLES OR ANY OTHER NON-BREAKAWAY OBSTRUCTION SHALL NOT BE INSTALLED WITHIN THE CLEAR ZONE.
- 19. AS DETERMINED BY THE ENGINEER, FOUNDATION EMBEDMENT MAY BE DECREASED BY A MAXIMUM OF TWO FEET IF COMPETENT ROCK IS ENCOUNTERED PRIOR TO ACHIEVING PLAN EMBEDMENT AND AT LEAST HALF OF THE REMAINING PLAN EMBEDMENT LENGTH IS KEYED INTO COMPETENT ROCK.
- 20. CONNECTION OF TRAFFIC SIGNAL DISPLAY TO FIELD WIRING SHALL UTILIZE AN APPROVED TERMINAL STRIP BEHIND HAND-HOLE COVER AT BASE OF POLE. TERMINAL STRIP SHALL PROVIDE PROTECTION TO PREVENT EXPOSURE TO THE PUBLIC IN THE EVENT THAT POLE COVER IS MISSING. PAYMENT FOR TERMINAL STRIPS SHALL BE INCLUDED IN ITEM 714 TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. CURRENT EDITION.
- 21. CONTROLLER CABINET LAYOUT AND ORIENTATION SHALL CONFORM TO IMSA STANDARDS.
- 22. ONE VIDEO PROGRAMMNG MODULE SHALL BE PROVIDED FOR AIMING AND SETUP OF DETECTORS IF THE VIDEO SYSTEM CANNOT BE ADJUSTED THROUGH HARDWARE AND SOFTWARE PROVIDED BY ITEMS WITHIN THE JOB.
- 23. TRAFFIC SIGNAL CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER OR ASSIGNED DEPARTMENT PROJECT INSPECTOR EACH DAY PRIOR TO SIGNAL RELATED WORK. NO WORK ON TRAFFIC SIGNALS WILL BE ALLOWED OR APPROVED WITHOUT THIS PRIOR NOTIFICATION.
- 24. ALL STEEL POLES SHALL BE DESIGNED TO MEET THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4th EDITION (2001) WITH 2003 AND 2006 INTERIMS.
- 25. DOOR PANEL TEST PUSH BUTTONS SHALL ACTUATE INDICATED PHASES. DETECTOR ASSIGNMENTS AND/OR SIDE PANEL JUMPERS MAY REQUIRE MODFICATION.
- 26. ALL SYSTEM DETECTOR RACKS AND ASSOCIATED EQUIPMENT SHALL BE PROTECTED BY THE MAIN CONTROLLER CABINET POWER SURGE PROTECTION.
- 27. IN PULL BOXES, POLE BASES, JUNCTION BOXES AND CONTROLLER CABINETS, THE DIRECTION OF EACH CABLE RUN SHALL BE INDICATED BY ATTACHING A PERMANENT TAG OF RIGID PLASTIC OR NON-FERROUS METAL TO THE CONDUIT. TAGS SHALL BE EMBOSSED, STAMPED OR ENGRAVED WITH LETTERS 1/4" OR GREATER IN HEIGHT AND SECURED TO THE CONDUIT WITH NYLON OR PLASTIC TIES. IN INSTANCES WHERE THE CONDUIT OR CONDUIT ENTRANCES ARE NOT VISIBLE OR ACCESSIBLE, A DIRECTION TAG SHALL BE ATTACHED TO EACH CABLE.
- 28. THE CONTRACTOR SHALL PERFORM ALL WORK POSSIBLE THAT WILL MINIMIZE THE TIME THAT THE TRAFFIC SIGNAL IS OUT OF OPERATION. IF, IN THE OPINION OF THE ENGINEER, TRAFFIC CONDITIONS WARRANT THE CONTRACTOR SHALL PROVIDE FLAGMEN TO DIRECT TRAFFIC WHILE THE TRAFFIC SIGNAL IS OUT OF OPERATION.

LOCATION: HWY. 270B/LAKESIDE RD.

CITY: GARLAND

COUNTY: GARLAND

DISTRICT: 06 SCALE: N

DATE: 05-06-19 FILE NAME: t061574_01.dgn DIST

SCALE: N/A

DRAWN BY: GWE

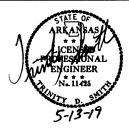
TRAFFIC SIGNAL QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
SP & 701	SYSTEM LOCAL CONTROLLER TS2-TYPE 2 (8 PHASES)	1	EACH
SP	LOCAL RADIO WITH ANTENNA	1	EACH
SP	ANTENNA CABLE (TYPE 6)	100	LIN. FT.
SP & 706	TRAFFIC SIGNAL HEAD, LED, (3 SECTION, 1 WAY)	5	EACH
SP & 706	TRAFFIC SIGNAL HEAD, LED, (4 SECTION, 1 WAY)	2	EACH
SP & 707	COUNTDOWN PEDESTRIAN SIGNAL HEAD, LED	4	EACH
708	TRAFFIC SIGNAL CABLE (5C/14 A.W.G.)	712	LIN. FT.
708	TRAFFIC SIGNAL CABLE (7C/14 A.W.G.)	116	LIN. FT.
708	TRAFFIC SIGNAL CABLE (20C/14 A.W.G.)	322	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/8 A.W.G., E.G.C.)	485	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/12 A.W.G., E.G.C.)	140	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/6 A.W.G.)	20	LIN. FT.
SP	ELECTRICAL CONDUCTORS FOR LUMINAIRES	462	LIN. FT.
709	GALVANIZED STEEL CONDUIT (2")	20	LIN. FT.
710	NON-METALLIC CONDUIT (2")	40	LIN. FT.
710	NON-METALLIC CONDUIT (3")	410	LIN. FT.
711	CONCRETE PULL BOX (TYPE 1)	2	EACH
711	CONCRETE PULL BOX (TYPE 2 HD)	4	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (34')	1	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (36')	1	EACH
SS & 714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (38')	1	EACH
SP	LED LUMINAIRE ASSEMBLY	3	EACH
SS & 715	TRAFFIC SIGNAL PEDESTAL POLE WITH FOUNDATION	3	EACH
SP	SERVICE POINT ASSEMBLY (2 CIRCUITS)	1	EACH
SP	18" STREET NAME SIGN	3	EACH
SP & 733	VIDEO DETECTOR (CLR)	6	EACH
733	VIDEO CABLE	801	LIN. FT.
733	VIDEO MONITOR (CLR)	1	EACH
SP & 733	VIDEO PROCESSOR, ÉDGE CARD (2 CAMERA)	4	EACH
SP & 733	VEHICLE DETECTOR RACK (16 CHANNEL)	1	EACH

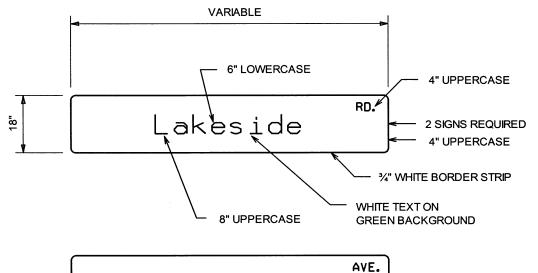
* ONE SPARE VIDEO DETECTOR AND ONE SPARE VIDEO PROCESSOR SHALL BE SUPPLIED

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RO. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB	NO.	061574	12	16

(2) TRAFFIC SIGNAL QUANTITIES



OVERHEAD STREET NAME MARKER STANDARD MAST ARM MOUNTED



Malvern

NOTES:

- 1. REFLECTIVE SHEETING SHALL COMPLY WITH ASTM 4956 TYPE 8 OR 9 REFLECTIVE SHEETING. SHEETING AND LEGEND SHALL BE APPLIED IN SUCH A MANNER TO PROVIDE WRINKLE AND BUBBLE FREE SURFACES. APPLICATION OF SHEETING IS CAUSE FOR REJECTION OF MATERIALS DUE TO WORKMANSHIP.
- 2. ALUMINUM SIGN BLANK SHALL BE ALLOY 6061-T6 OR 5052-H38. THE ALUMINUM SIGN SHALL BE ALSO ALODIZED. THE ALUMINUM SHEETING SHALL BE 0.100 INCH NOMINAL THICKNESS AND OF THE SIZE SHOWN WITH 1.5" CORNER RADII. PRIOR TO FABRICATION OF THE SIGNS, THE LAYOUT SHALL FIRST BE APPROVED BY AN AGENT OF THE CITY/ COUNTY.
- 3. WHEN CROSSROAD HAS TWO NAMES, THE SIGN FOR THE CROSSROAD TO THE LEFT MAY BE INSTALLED ON THE BACKSIDE OF THE MAST ARM ON THE NEARSIDE LEFT POLE. SEE STANDARD DRAWING SHEET FOR MORE INFORMATION FOR MOUNTING ON MAST ARM ASSEMBLY.
- 4. THE SERIES C 2000 STANDARD ALPHABET SHALL BE USED FOR ALL LETTERS.

LOCATION:

HWY. 270B/LAKESIDE RD. HOT SPRINGS

COUNTY:

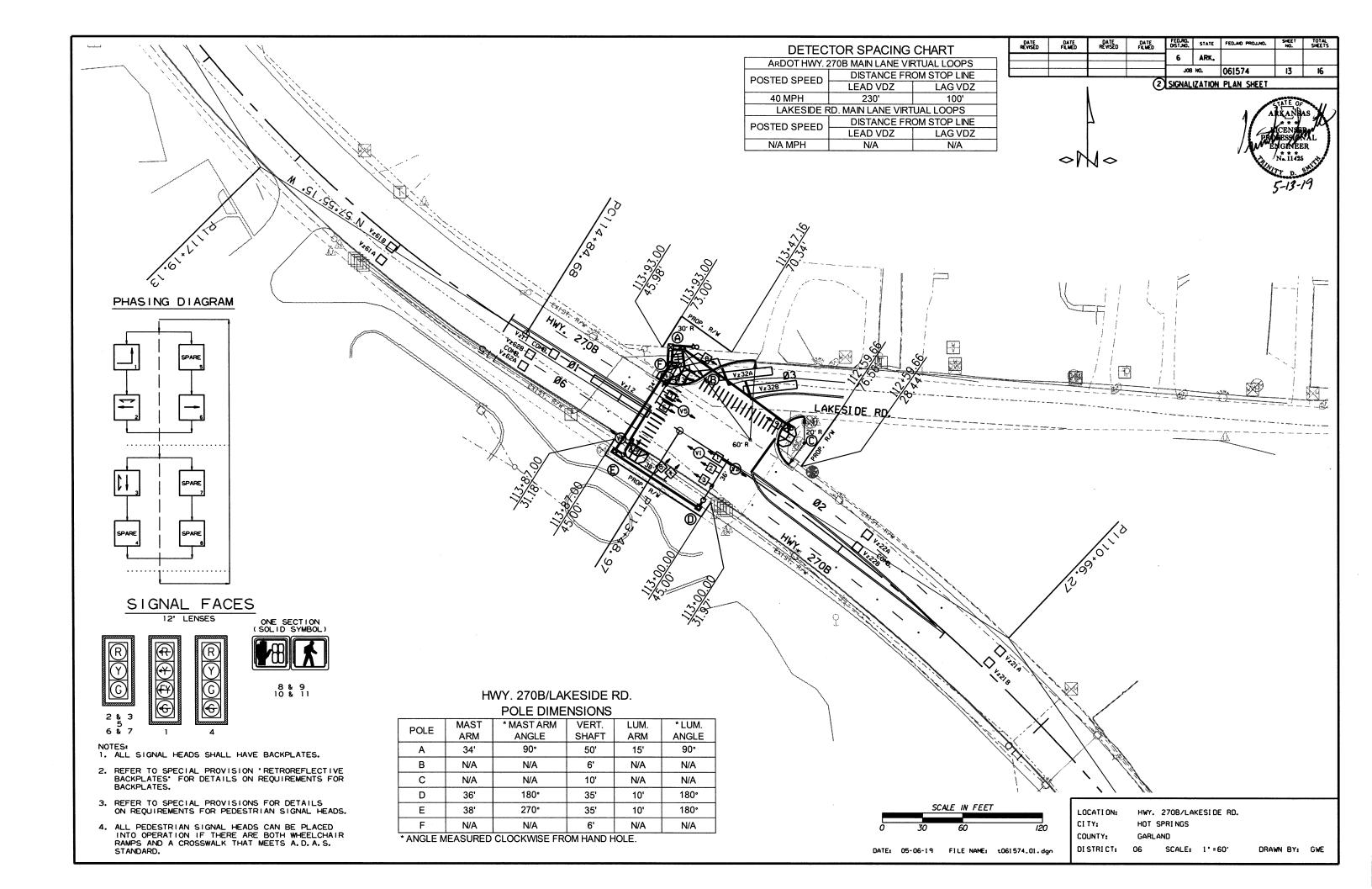
GARLAND

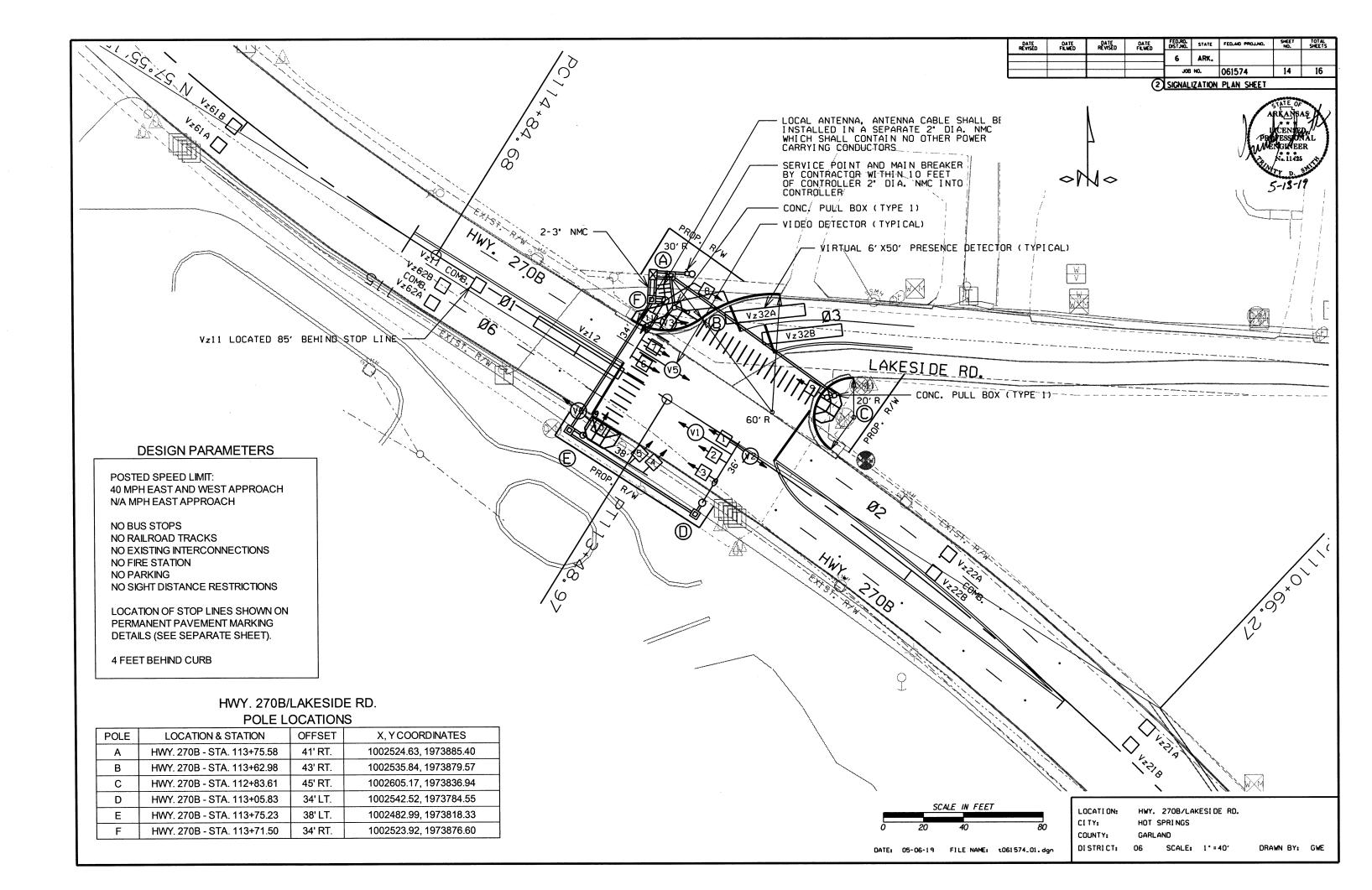
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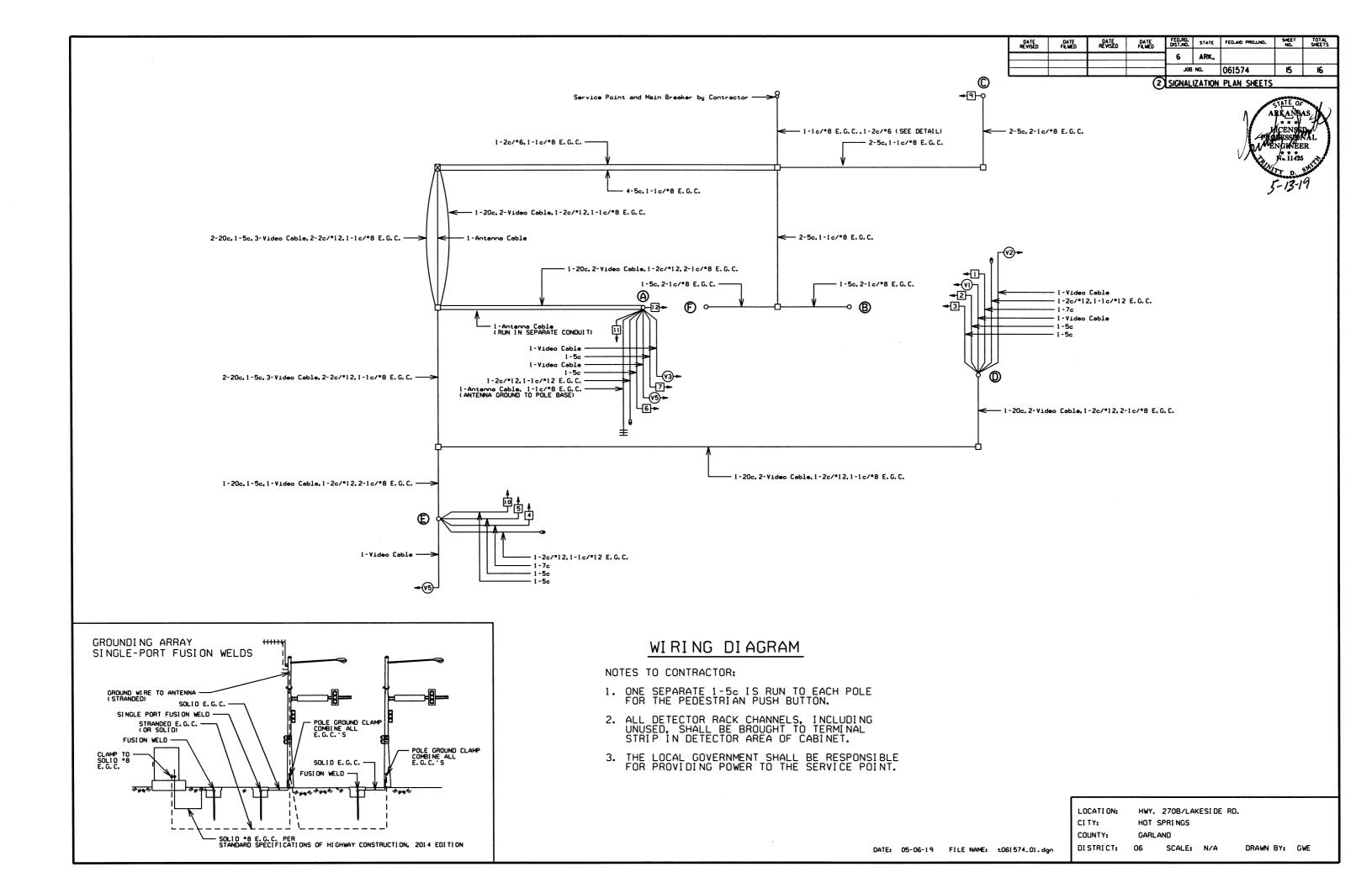
CI TY:

DISTRICT: 06 SCALE: N/A

DATE: 05-06-19 FILE NAME: t061574_01.dgn







PHASING DIAGRAM

1

.

SPARE

SIGNAL FACES

12" LENSES

ONE SECTION (SOLID SYMBOL)







NOTES:

- 1. ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
- REFER TO SPECIAL PROVISION RETROREFLECTIVE BACKPLATES FOR DETAILS ON REQUIREMENTS FOR BACKPLATES.
- 3. REFER TO SPECIAL PROVISIONS FOR DETAILS ON REQUIREMENTS FOR PEDESTRIAN SIGNAL HEADS.
- 4. ALL PEDESTRIAN SIGNAL HEADS CAN BE PLACED INTO OPERATION IF THERE ARE BOTH WHEELCHAIR RAMPS AND A CROSSWALK THAT MEETS A.D.A.S. STANDARD.

DETECTOR CHART

			DE	TECTOR	SYSTEM	DESCRI	PTION: JO	OB 061574								
	HWY. 270B/LAKESIDE	RD.		HARD	WARE IN	PUTS	P	ROGRAM AS	SSIGNMENTS							
	DETECTOR ASSIGNME		BYSUPPLIER			LOCAL		MASTER SYSTEM	COMMENTS	TUBE						
DET. ID#	LOCATION DIRECTION	TYPE	DET.#	CAB.	AMP	CON.	PHS	SYSTEM	DETECTOR	COMMENTS	LENGTHS					
DE1.10#	LOCATION DIRECTION	THE	DET.#	TRM.#	CHN.#	MP.#	-113	DET.#	NUMBERS							
Vz11	EB LEFT TURN FAR	COMB.			1	V9	1	1		CAMERA V1	37"					
Vz12	EB LEFT TURN	LOCAL			2	V1	1			CAMERA V1	37"					
											-					
Vz21 A&B	WB ADVANCE	LOCAL			5	V2	2			CAMERA V2	74"					
Vz22 A&B	WB NEAR	COMB.			6	V10	2	2		CAMERA V5	37"					
Vz31	SB LEFT TURN	LOCAL			9	V11	3	3		CAMERA V3	37"					
Vz32	SB RIGHT TURN	LOCAL			10	V3	3			CAMERA V3	37"					
Vz61 A&B	EB ADVANCE	LOCAL			3	V6	6			CAMERA V6	74"					
Vz62 A&B	EB NEAR	COMB.			4	V14	6	6		CAMERA V1	37"					
PB2 A&B	LAKESIDE RD. N. LEG	PED.				P2	2									
PB3 A&B	HWY. 270B W. LEG	PED.				P3	3									
				L		L		l								
i	1	1			ISPARE 1	7.8.11.12	SPARE 7.8.11.12.13.14.15 & 16									

CONTROLLER INPUT ABBREVIATIONS:

V = VEHICLE INPUT

D = SYSTEM OR AUXILIARY INPUT

P = PEDESTRIAN INPUT

"AMP CHN =" REFERS TO THE RACK OUTPUT POSITION.

THIS IS WIRED TO CONTROLLER INPUT DETECTOR NUMBER WHICH IS PROGRAMMED TO ACTUATE THE DESIGNATED PHASE.

EXAMPLE: V9 = SYSTEM DETECTOR 1, V10 = SYSTEM DETECTOR 2

FED.RD. STATE FED.AID PROJ.NO. NO. SHEETS DATE REVISED DATE DATE REVISED DATE FILMED ARK. 6 JOB NO. 061574 16

2 SIGNALIZATION PLAN SHEET

INTERVAL CHART

SIGNAL	Н	FLASH					
ACES	1+6	CLR.	2+6	CLR.	3	CLR.	SEO.
ı	-6	•	₹Y	•••	₹	₩	₹
2&3	G	••	G	••	R	R	R
4	R	R	R	R	G∕¢	••	R
5	R	R	R	R	G	••	R
6&7	R	R	G	••	R	R	R
8&9	DW	DW	W	FDW	DW	DW	BLK
10&11	DW	DW	DW	DW	W	FDW	BLK

DATE: 05-06-19 FILE NAME: t061574_01.dgn

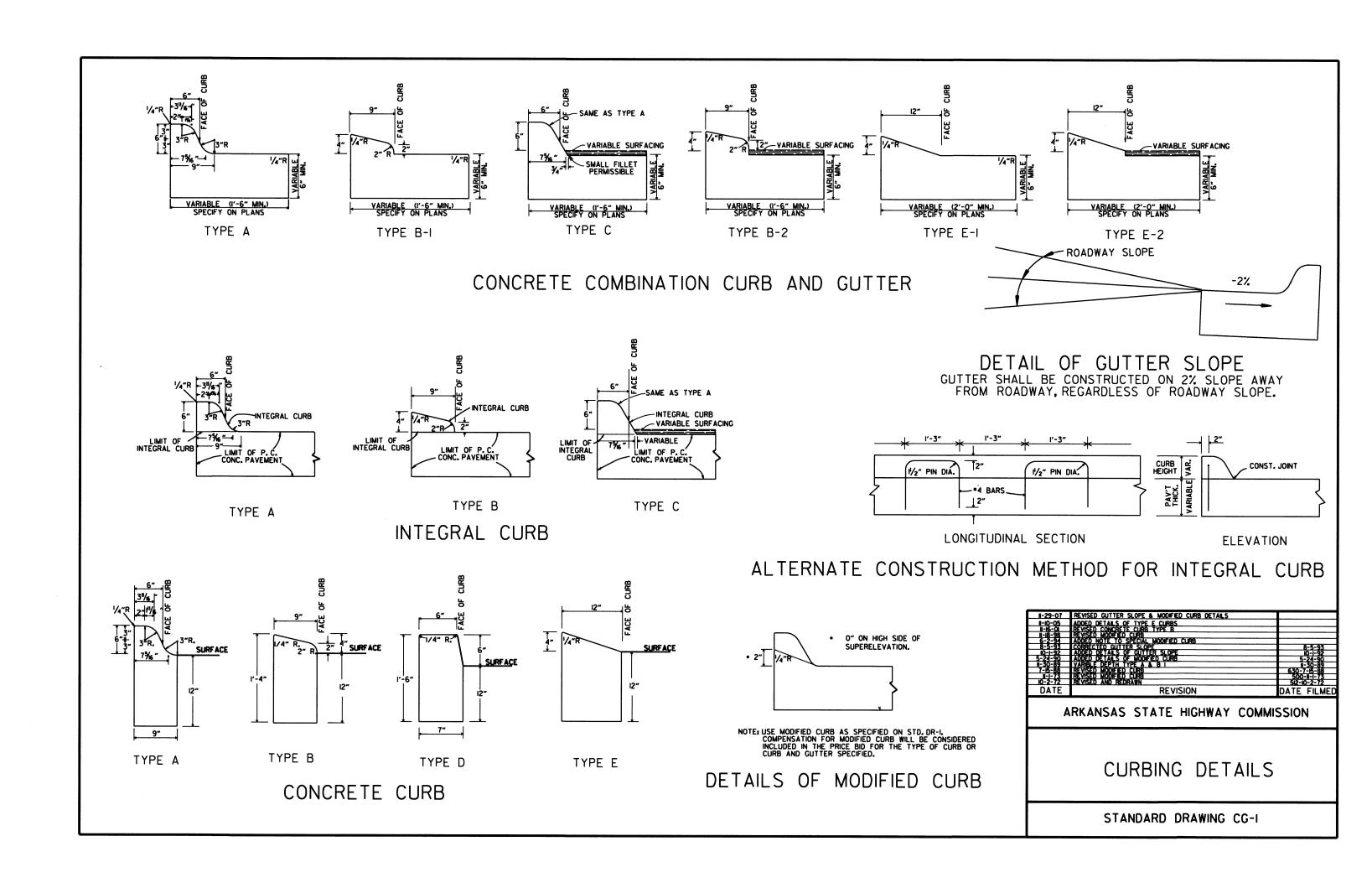
- DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE
- .. DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE
- ••• DENOTES FLASHING YELLOW ARROW OR YELLOW ARROW DEPENDING ON NEXT PHASE

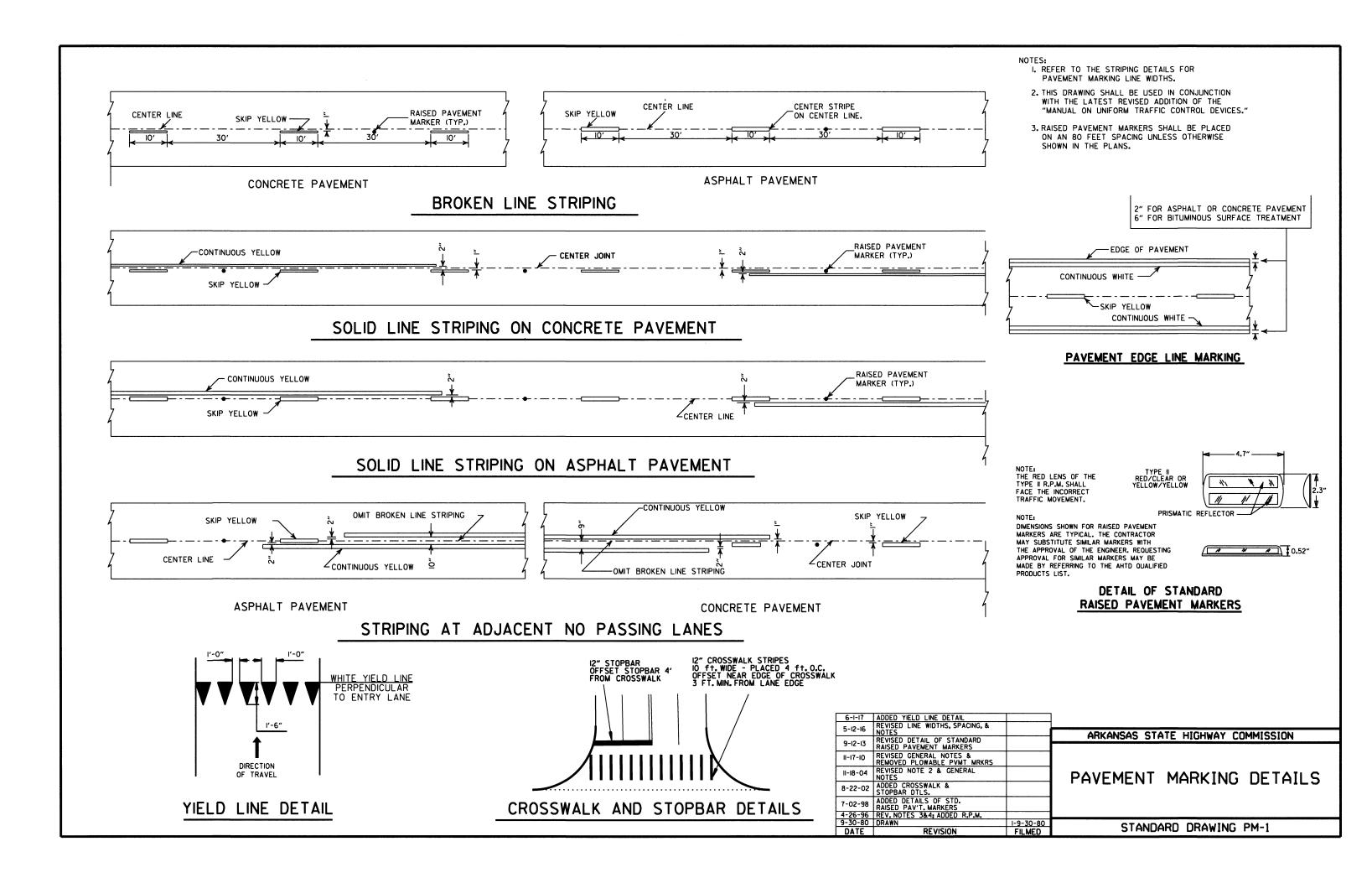
LOCATION: HWY. 270B/LAKESIDE RD.

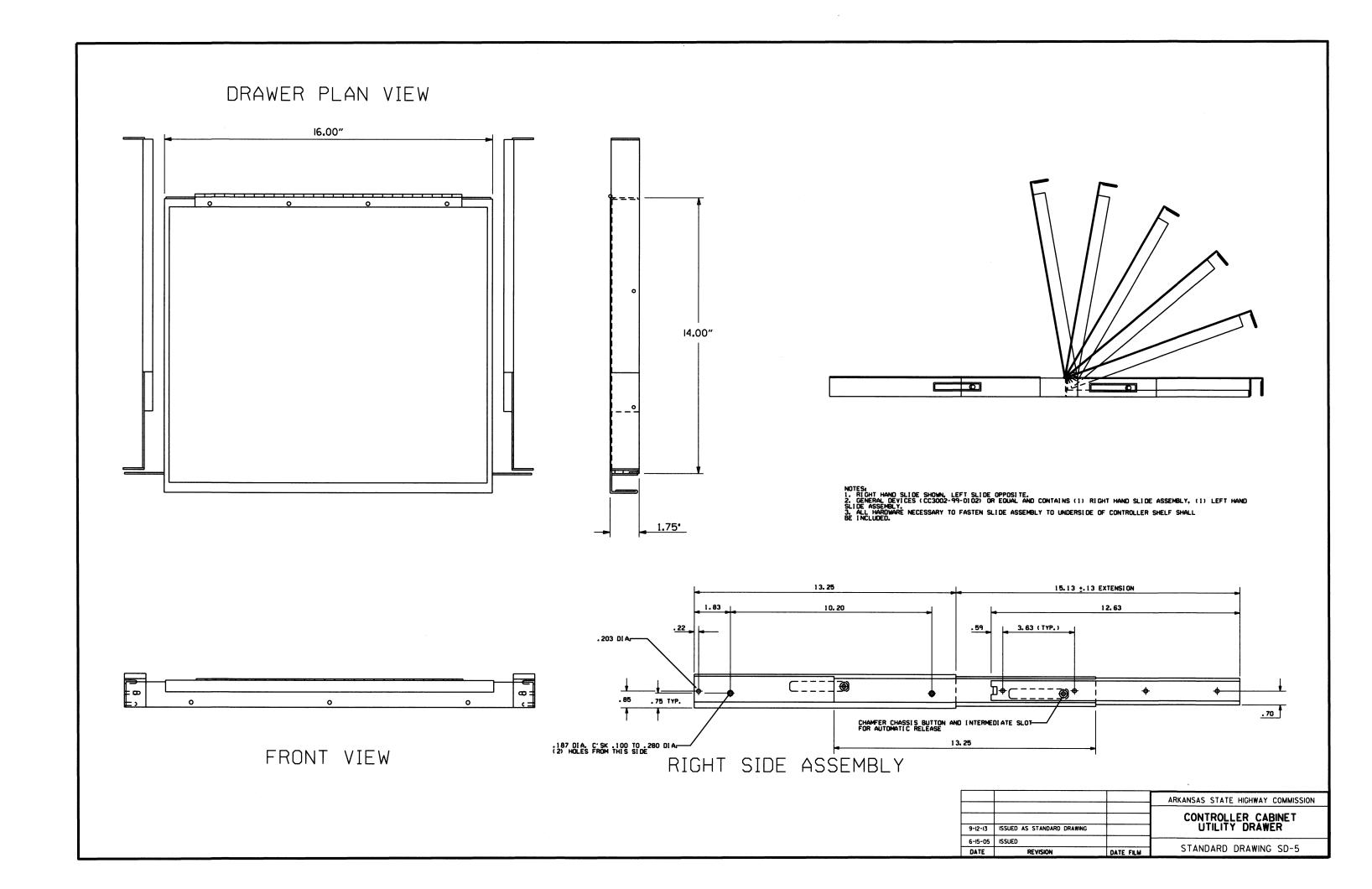
CI TY: HOT SPRINGS

COUNTY: GARLAND

DI STRI CT: 06 SCALE: N/A DRAWN BY: GWE



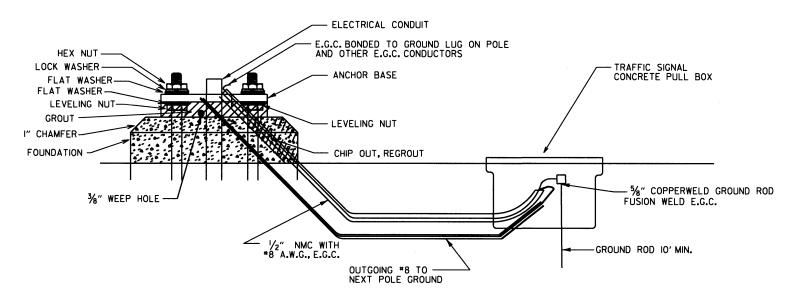




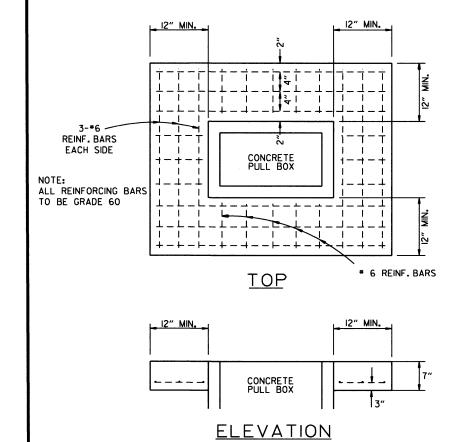
CONDUIT ENTRY TO EXISTING POLE BASE

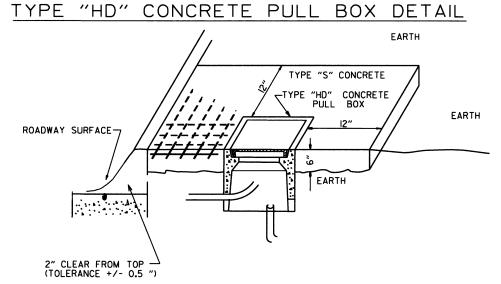
EXISTING CONDUIT EXISTING CONDUIT CHIP OUT, REGROUT GROUND ROD

ANCHOR BASE



CONDUIT ENTRY TO EXISTING CONTROLLER CABINET





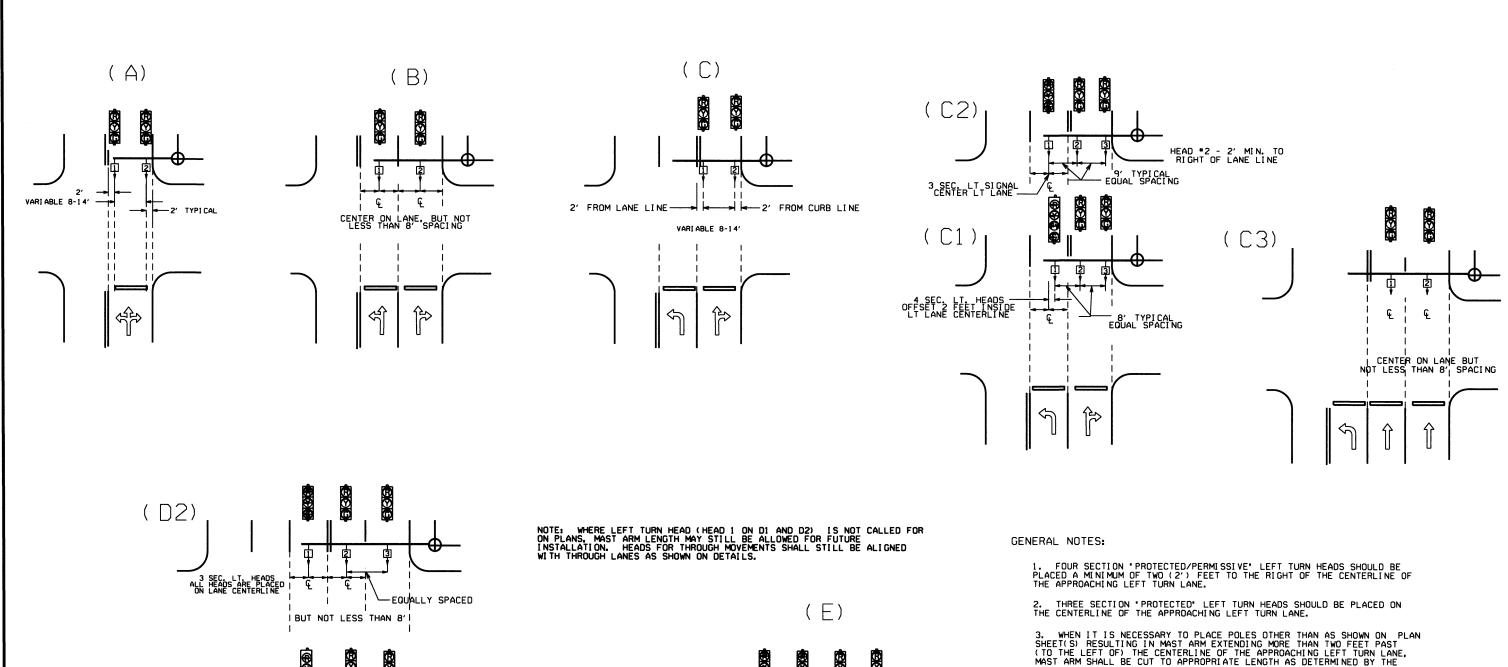
NMC AS SHOWN ON PLANS

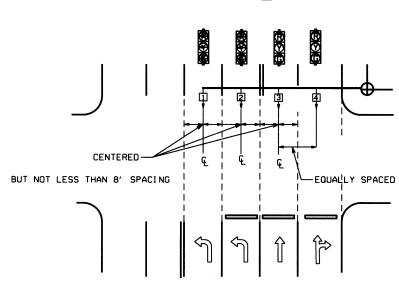
EXIST. CONTROLLER CABINET CONCRETE BASE

NOTE: ENTRY TO CABINET SHALL BE THROUGH A CUT IN THE BASE SUFFICIENT TO PROVIDE ADEQUATE CONDUIT RADIUS FOR ITEM.

NOTE:
ALL TYPE IAND TYPE 2 HD CONCRETE PULL BOXES ARE INSTALLED WITH AN APRON OF CONCRETE 12" WIDE AND 7" IN DEPTH. ALL PAYMENT SHALL BE INCLUDED IN THE PRICE OF THE TYPE HD CONCRETE PULL BOX. THE CONCRETE PULL BOX SHALL BE INSTALLED FLUSH TO SURROUNDING GRADE UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER. THE CONCRETE SHALL BE CLASS "S". THREE *6 REINFORCING BARS IN THE APRON ON ALL SIDES OF THE CONCRETE PULL BOX IS REQUIRED IN CONCRETE.

11-16-17	REVISED NOTES		
09-02-15	REVISED PULL BOX DEPTH		
09-12-13	ISSUED AS STANDARD DRAWING		ARKANSAS STATE HIGHWAY COMMISSION
05-21-09	REVISED GROUNDING		
07-31-08	ADDED & REVISED CONDUIT ENTRY		
06-23-04	REVISED CLEARANCE AT CURB ENTRY		HEAVY DUTY PULL BOX
01-04-02	ADDED REINFORCING TO BOX APRON		HEAVI DOTT FULL DOX
07-02-0	REVISED		
12-27-99	REVISED NOTES		
11-18-98	ISSUED		STANDARD DRAWING SD-6
DATE	REVISION	FILMED	STANDAND DNAMING 30-6





€ = CENTER OF LANE FROM APPROACH SIDE

(D1)

OFFSET 2 FEET INSIDE LT LANE CENTERLINE

CENTERED

-EQUALLY SPACED BUT NOT LESS THAN 8'

(f)>

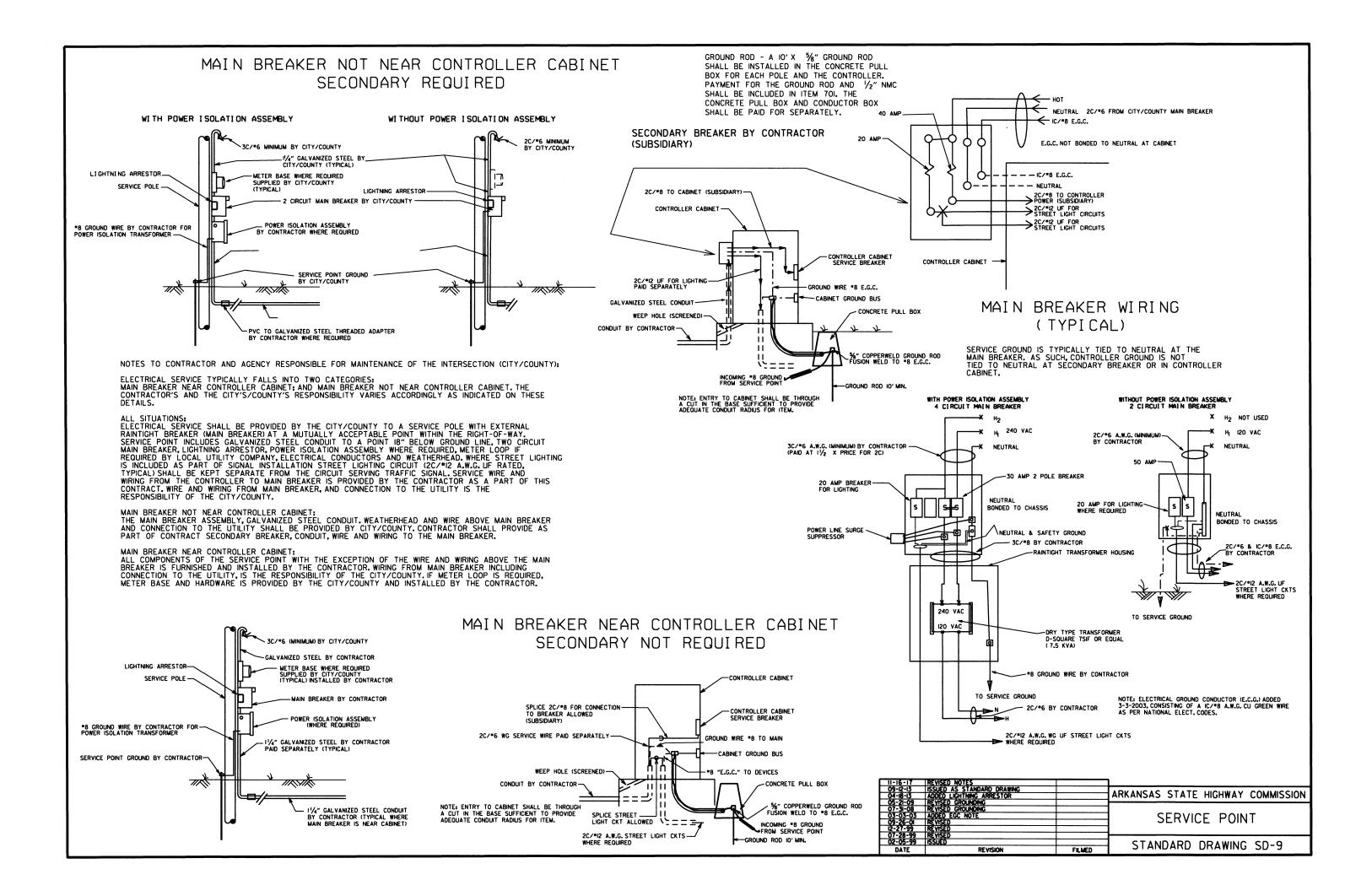
3. WHEN IT IS NECESSARY TO PLACE POLES OTHER THAN AS SHOWN ON PLAN SHEET(S) RESULTING IN MAST ARM EXTENDING MORE THAN TWO FEET PAST (TO THE LEFT OF) THE CENTERLINE OF THE APPROACHING LEFT TURN LANE, MAST ARM SHALL BE CUT TO APPROPRIATE LENGTH AS DETERMINED BY THE ENGINEER, AND A NEW END CAP PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THIS PRIOR TO INSTALLING THE MAST ARM IF ADDITIONAL COMPENSATION IS REQUIRED.

4. SIGNAL HEAD SPACING SHALL, IN NO CASE, BE LESS THAN EIGHT (8') FEET BETWEEN HEADS ON CENTER, MEASURED HORIZONTALLY PERPENDICULAR TO THE APPROACH.

5. ALL SIGNAL HEADS SHOWN ON THIS DETAIL SHEET SHALL BE LOCATED ACCORDING TO THE DIMENSIONS SHOWN IN RELATION TO THE APPROACH SIDE OF THE INTERSECTION.

6. MAXIMUM MOUNTING HEIGHT OF SIGNAL FACES LOCATED BETWEEN 40 FEET AND 53 FEET FROM STOP BAR SHALL BE IN ACCORDANCE WITH FIGURE 4D-5 OF 2009 MUTCD.

			ARKANSAS STATE HIGHWAY COMMISSION	
12-8-16	REVISED NOTE 6	1		
9-12-13 ISSUED AS STANDARD DRAWING 3-11-10 2009 MUTCD			SIGNAL HEAD PLACEMENT	
			SIGNAL HEAD I LACEMENT	
12-9-99	ISSUED		7	
DATE	REVISION	DATE FILM	STANDARD DRAWING SD-8	



NOTES:
PEDESTRIAN AND TRAFFIC SIGNAL HEAD SIGNS:
EACH ITEM "TRAFFIC SIGNAL HEAD (4 SEC., I-WAY)"
SHALL INCLUDE A SPECIAL SIGN AS SHOWN, ATTACHED TO
THE MAST ARM OR SPAN ASSEMBLY 12" TO THE RIGHT OF THE
SIGNAL HEAD UNLESS REMOVED WITHIN THE SIGNAL
DIAN MOTE UNLESS REMOVED WITHIN THE SIGNAL PLAN NOTES.

EACH ITEM "TRAFFIC SIGNAL HEAD (3 SEC., I-WAY)" TO BE USED AS A LEFT TURN INDICATION ONLY SHALL INCLUDE A SIGN (RIO-IO) AS SHOWN, ATTACHED TO THE MAST ARM OR SPAN ASSEMBLY 12" TO THE RIGHT OF THE SIGNAL HEAD.

EACH PEDESTRIAN PUSHBUTTON SHALL HAVE ONE RIO-3E SIGN ATTACHED TO THE POLE ABOVE THE BUTTON. ALL SIGNS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 723 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

ALL SIGN BLANKS SHALL BE CONSTRUCTED OF ALUMINUM ALLOY (ASTM DESIGNATION B-209. ALLOY 5052-H38) WITH THICKNESS OF 0.100 INCH.

GENERAL NOTES: I. MAST ARM POLES SHALL BE MOUNTED A MINIMUM OF FOUR (4') FEET BEHIND CURB OR SHOULDER.

2. OCTAGONAL POLES AND ARMS MEETING THE REQUIREMENTS OF THE PLANS SPECIFICATIONS CAN BE INSTALLED IN LIEU OF ROUND. ALL POLES AND ARMS IN A JOB MUST BE THE SAME SHAPE.

3. MINIMUM STRUCTURAL REQUIREMENTS:
DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS
FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION (2001) WITH 2003 AND

USE FATIGUE CATEGORY IFOR ALL STRUCTURES ON ROUTES WHERE THE SPEED LIMIT IS 65 MPH AND GREATER AT THE STRUCTURE LOCATION AND ON ROUTES WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH WITH AN MAST ARM OF 60' OR LONGER.

USE FATIGUE CATEGORY IIFOR ALL STRUCTURES ON ROUTES WHERE THE SPEED LIMIT IS LESS THAN 65 MPH AND GREATER THAN 45 MPH WITH MAST ARMS LESS THAM 60' AND ON ROUTES WHERE THE SPEED LIMITS OF 45 MPH AND LESS WITH

USE FATIGUE CATEGORY HIFOR ALL STRUCTURES WHERE THE SPEED LIMIT IS 45 MPH AND LESS AND MAST ARMS LESS THAN 60'.

CONSTRUCTION SPECIFICATIONS: STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION) WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

BASE WIND SPEED: 90 MPH.

STEEL MEMBERS CONSIDERED MAIN LOAD CARRYING MEMBERS WITH A THICKNESS GREATER THAN ½" SHALL MEET THE LONGITUDINAL CHARPY V-NOTCH TEST SPECIFIED IN SUBSECTION 807.05 OF THE STANDARD SPECIFICATIONS.

DEAD LOAD: AS A MINIMUM, DESIGN SHALL BE BASED ON THE FIXED ATTACHMENTS SHOWN BELOW OR AS MODIFIED IN THE PLANS.

ALL SIGNAL HEADS TO BE ONE WAY, TWELVE (12") INCH AND HAVE FIVE (5") INCH BACK PLATES:

SIGNAL HEADS AT THE END OF MAST ARM - ONE 4 SEC., 85 LB., 14.5 SO. FT., ONE SIGN MOUNTED 3 FEET FROM SIGNAL HEAD (2'-O" X 2'-6"; 20 LB.) REMAINING SIGNAL HEADS SPACED AT 8 FT. (3 SEC., 56 LB., 8.3 SO. FT.); DESIGN TO ACCOMMODATE; 2 SIGNAL HEADS FOR MAST ARMS 10 FT. TO 16 FT. 3 SIGNAL HEADS FOR MAST ARMS 18 FT. TO 24 FT.

I SIGNAL HEADS FOR MAST ARMS OVER 26 FT.

STREET NAME SIGN - 72" X 18". 36 LB., MOUNTED SUCH THAT OUTSIDE EDGE IS NOT GREATER THAT 12 FT. FROM POLE. DEPENDING UPON POSITION OF SIGNAL HEAD ADJACENT TO POLE, SIGN MAY OVERLAP POLE SHAFT. ROADWAY LUMINAIRES (WHERE REDUIRED ON PLAN SHEET) - VARIABLE ARM LENGTH (MAX. WT. 75 LB., 3.3 SO. FT.) PEDESTRIAN SIGNALS - TWO I SEC., 12 INCH MOUNTED B FT. FROM BASE OF POLE. POST MOUNTED 3 SEC. SIGNAL HEAD AT 10 FT. ON SIDE OF POLE.

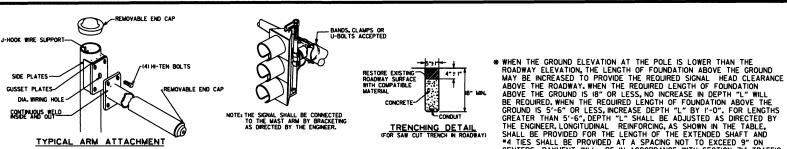
4. POLE/MAST ARM CAP - POLE AND MAST ARM CAPS SHALL BE PROVIDED, FABRICATED OF EITHER STEEL OR CAST ALUMINUM.

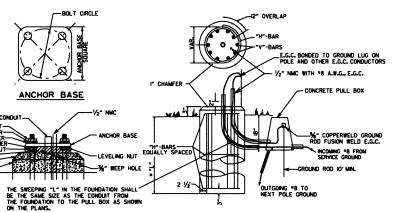
5. HAND HOLE - HAND HOLES SHALL BE 4 IN. X 6 IN. FOR STANDARD, AND 3 IN. X 5 IN. FOR PED POLES. MINIMUM PLACED APPROXIMATELY IZ INCHES FROM BASE, AND SHALL BE FIXED WITH A BOLT DOWN COVER. A VACCUM FORMED ABS COVER IS AN ACCEPTABLE ALTERNATE TO STEEL. POLES GREATER THAN ZIFT. IN HEIGHT (FOR ROADWAY LUMINAIRE ATTACHMENT) SHALL INCLUDED A HAND HOLE WITHIN 12 INCHES OF MAST ARM(S) ATTACHMENT(S).

6. POLE/MAST ARM TAPER SLOPE - AVERAGE TAPER OF SIGNAL MAST ARMS AND POLE SHAFT SHALL BE 0.125 TO 0.15 INCHES PER FOOT.

MAST ARM CENTERLINE ANGLE AT ATTACHMENT POINT WITH POLE SHALL MAINTAIN NOT LESS THAN 0.5 DEGREES OR MORE THAN 4 DEGREES POSITIVE SLOPE WITH A LINE PERPENDICULAR TO THE POLE CENTERLINE. THE MAST ARM SHALL MAINTAIN A POSITIVE SLOPE AFTER IT IS PLACED

7. NUT COVERS - EACH POLE SHALL INCLUDE A BOLT DOWN NUT COVER FOR EACH ANCHOR BOLT.



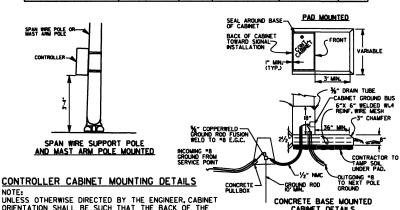


THE GROUND ROD SHALL BE FUSION WELDED TO A KC/*8 A.W.G. SOLID COPPER GROUND WERE, ATTACHMENT TO THE PRIMARY GROUND MAY BE BY AN APPROVED CLAMP, THE GROUND ROD IS TO BE LOCATED IN THE CONCRETE PLUL BOX.

TYPICAL FOUNDATION DETAILS

POLE FOUNDATION MINIMUM DIMENSIONS AND STEEL REINFORCING. ALL REINFORCING STEEL SHALL BE GRADE 40 MIN.

ARM	FOUNDATION	DEPTH	STEEL			
LENGTH	DIAMETER	″L″*	VERTICAL	HORIZONTAL	0.C.	
PED	30"	7′-0"	12-#7 (6'-6")	10-#4	8.44"	
2' TO 12'	30"	10'-6"	12-#7 (10'-0")	15-#4	8.42"	
OVER 12' TO 20'	30"	II'-6"	12-#7 (11'-0")	16-#4	8.66"	
OVER 20' TO 35'	36"	12'-6"	13-#8 (12'-0")	17-#4	8.88"	
OVER 35' TO 50'	36"	13'-6"	13-#8 (13'-0")	19-#4	8.56"	
OVER 50' TO 72'	42"	14'-6"	18-#8 (14'-0")	20-#4	8.74"	
TWINS TO 20'	30"	16'-0"	12-#6 (15'-6")	22-*4	8.76"	
TWINS OVER 20' TO 44'	36"	16'-0"	13-*8 (15'-6")	22-#4	8.76"	
TWINS OVER 44' TO 50'	42"	16'-0"	18-#8 (15'-6")	22-*4	8.76"	
TWINS OVER 50' TO 72'	42"	16'-6"	18-#8 (16'-0")	23-#4	8.64"	



NOTE: ORDINE: WOOTNOTE DE THE MONTE. PURILESS OTHERWISE DIRECTED BY THE ENGINEER, CABINET ORIENTATION SHALL BE SUCH THAT THE BACK OF THE CABINET IS PARALLEL TO THE STREET AND POSITIONED TO ALLOW VISIBILITY OF THE SIGNAL DISPLAY WHILE OBSERVING THE CONTROLLER FRONT PANEL.

8. GROUND ROD - A 10' X 5%" GROUND ROD SHALL BE INSTALLED IN THE CONCRETE PULL BOX FOR EACH POLE AND THE CONTROLLER. PAYMENT FOR THE GROUND ROD AND 1/2" NMC SHALL BE INCLUDED IN ITEM 714 FOR SIGNAL POLES AND ITEM 70 FOR THE CONTROLLER. THE CONCRETE PULL BOX AND CONDUCTOR BOX SHALL BE PAID SEPERATELY.

9. POLE BASE/FOUNDATION - ANCHOR BOLTS SHALL INCLUDE AS A MINIMUM, ONE LEVELING NUT, TWO FLAT WASHERS, ONE LOCK WASHER, AND ONE HEX NUT. PERIMETER OF ANCHOR BASE SHALL BE GROUTED WITH A 1/4" WEEP HOLE. ALL CONCRETE SHALL BE CLASS "S" OR GREATER.

IO. CONCRETE - ALL CONCRETE FOR CONTROLLER CABINET AND POLE FOUNDATIONS SHALL BE CLASS "S" OR GREATER.

SIGNAL OPERATION NOTES:

LEFT TURN

YIELD

VISED
V, NOTE 3/AASHTO REQUIREMENTS
V, NOTES & POLE MAST ARM SLOPE
VISED POLE TAPERS
V, NOTES & SIGNAL HEAD PLACEMENT
VISED FOLIADATION DETALS
VISED FOLIADATION DETALS

LEFT

TURN

FLASHING OPERATION - PRIOR TO NORMAL OPERATION, SIGNAL SHALL BE FLASHED FOR A PERIOD OF 3 TO 5 WORK DAYS OR AS DIRECTED BY THE ENGINEER. SIGNAL SHALL BE PLACED IN OPERATION ONLY ON A REGULAR WORK DAY, EXCEPT FRIDAY.

THE CONTRACTOR MAY BE REQUIRED TO ALTER THE FLASHING DISPLAY DURING THE TEMPORARY FLASH PERIOD, AT THE TIME THE INTERSECTION IS PLACED IN PERMANENT OPERATION, THE FLASH SEQUENCE SHALL THEN BE RETURNED TO THAT INDICATED ON THE PLAN SHEETS, NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THESE ALTERATION IN FLASH

24" MIN. POLE TO ANTENNA

- MAST ARM MOUNTED SIGNAL HEADS SHALL BE MOUNTED AT 17' TO 19' ABOVE ROADWAY

ONE SECTION (SOLID SYMBOL)

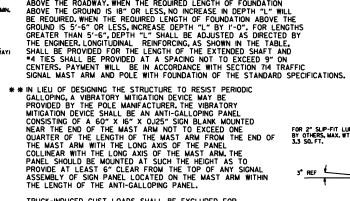
PEDESTRIAN SIGNAL HEAD

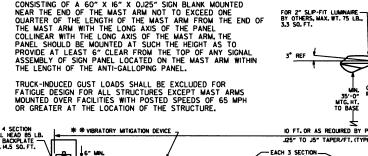
HANDHOLE TERMINAL

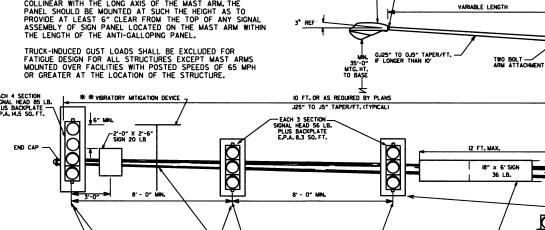
SPECIAL NOTE: 90 MPH WIND ZONE DESIGN, SEE NOTE 3. MINIMUM STRUCTURAL REQUIREMENTS.

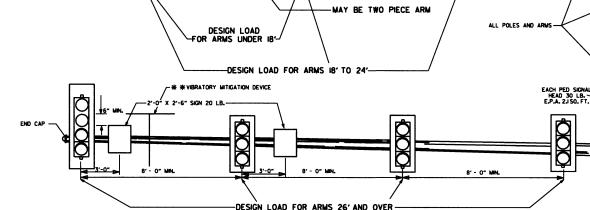
POLE TOP WITH %*
J-HOOK WELDED __
INSIDE POLE

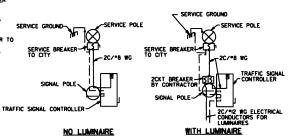
--- 2.3" O.D.





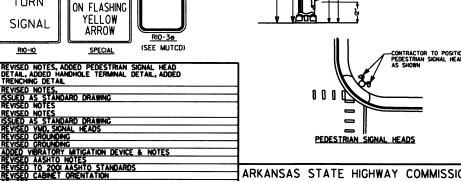






SERVICE DISCONNECT NOTE: ELECTRICAL GROUND CONDUCTOR IS BONDED TO ALL METAL ENCLOSURES

II. PEDESTRIAN PHASES - PEDESTRIAN MOVEMENTS SHALL BE PUSH BUTTON ACTUATED AND CONCURRENTLY TIMED, UNLESS OTHERWISE INDICATED ON THE PLAN SHEET(S). FURNISHING AND INSTALLING PEDESTRIAN PUSH SWITCH SHALL BE CONSIDERED SUBSIDIARY TO THE ITEM 707 PEDESTRIAN

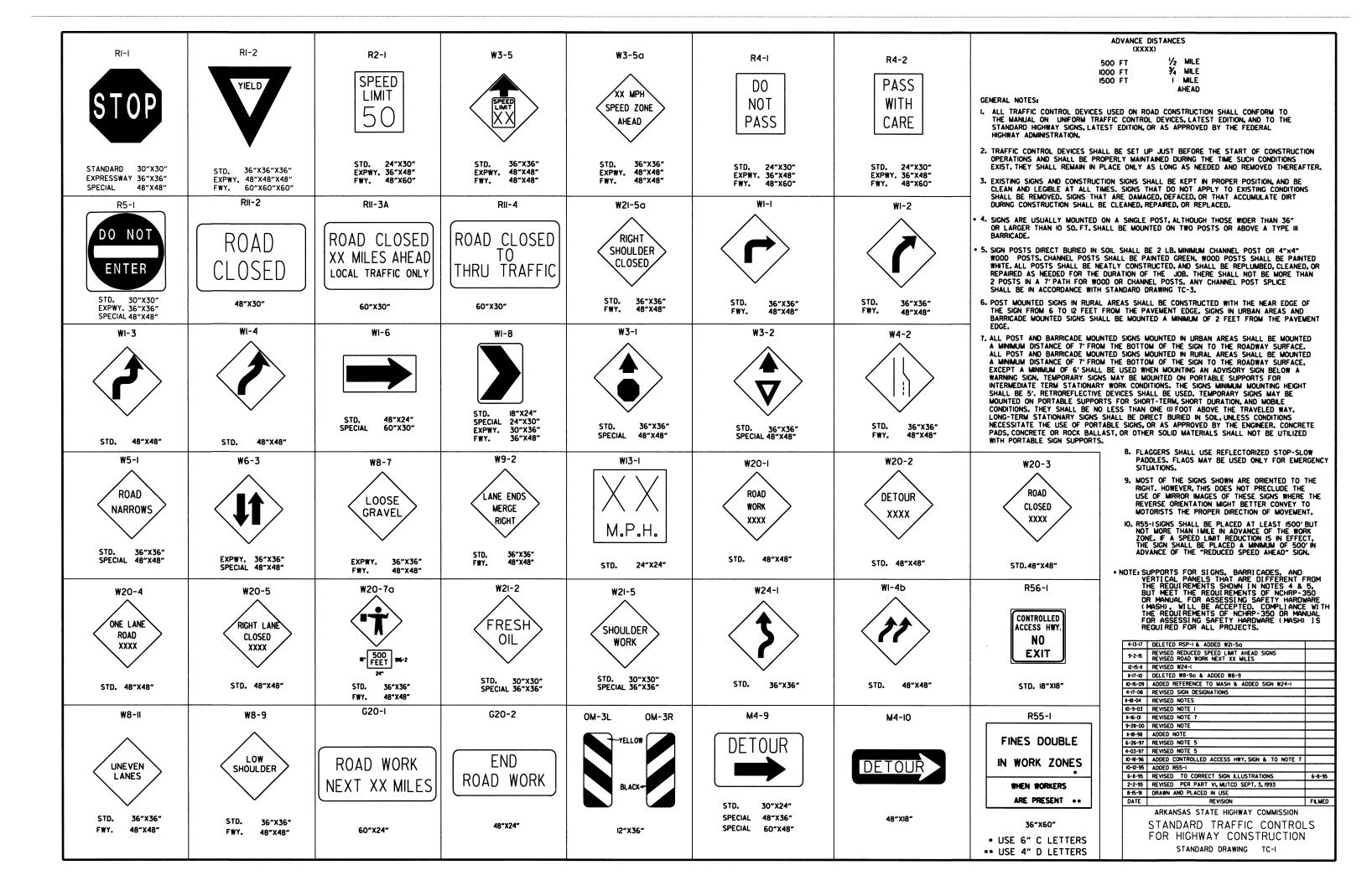


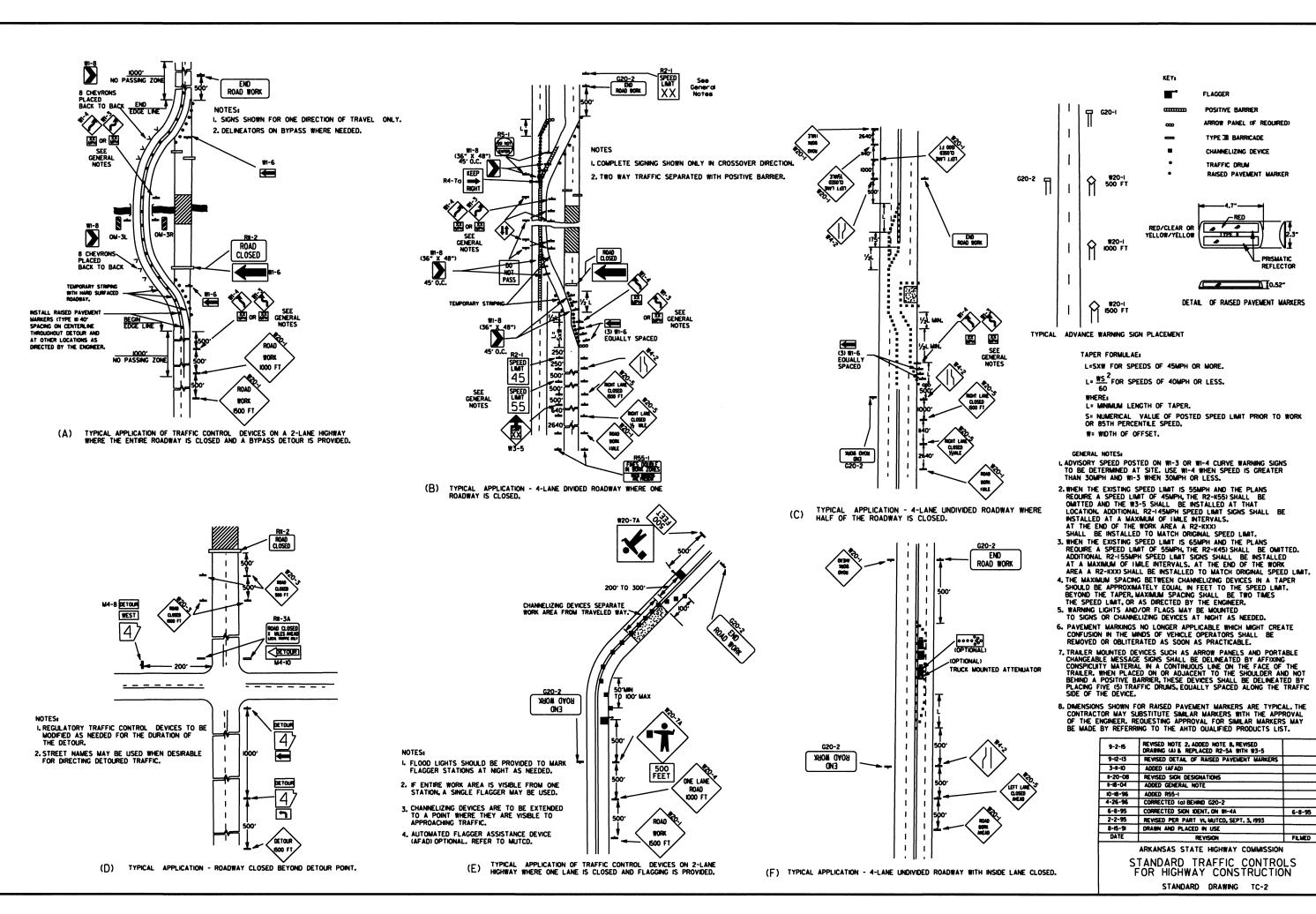
FILMED

ARKANSAS STATE HIGHWAY COMMISSION STEEL POLE WITH

STANDARD DRAWING SD-II

MAST ARM





5. WARNING LIGHTS AND/OR FLAGS MAY BE MOUNTED TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED. 6. PAYEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE. TRALER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING CONSPICUTTY MATERIAL IN A CONTINUOUS LINE ON THE FACE OF THE TRALER, WHEN PLACED ON OR ADJACENT TO THE SHOULDER AND NOT BEHIND A POSITIVE BARRIER, THESE DEVICES SHALL BE DELINEATED BY PLACING FIVE (5) TRAFFIC DRUMS, EQUALLY SPACED ALONG THE TRAFFIC SIDE OF THE DEVICE. 8. DIMENSIONS SHOWN FOR RAISED PAYEMENT MARKERS ARE TYPICAL, THE CONTRACTOR MAY SUBSTITUTE SIMILAR MARKERS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR SIMILAR MARKERS MAY REVISED NOTE 2, ADDED NOTE 8, REVISED DRAWNG (A) & REPLACED R2-5A WITH W3-5 9-12-13 REVISED DETAIL OF RAISED PAVEMENT MARKERS 3-II-IO ADDED (AFAD) II-20-08 REVISED SIGN DESIGNATIONS
II-I8-04 ADDED GENERAL NOTE 10-18-96 ADDED R55-1 4-26-96 CORRECTED (a) BEHIND G20-2 6-8-95 CORRECTED SIGN IDENT. ON WI-4 2-2-95 REVISED PER PART VI, MUTCD, SEPT. 3, 1993 8-15-91 DRAWN AND PLACED IN USE REVISION ARKANSAS STATE HIGHWAY COMMISSION STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-2

KEY:

RED/CLEAR OF

FLAGGER POSITIVE BARRIER

TYPE III BARRICADE

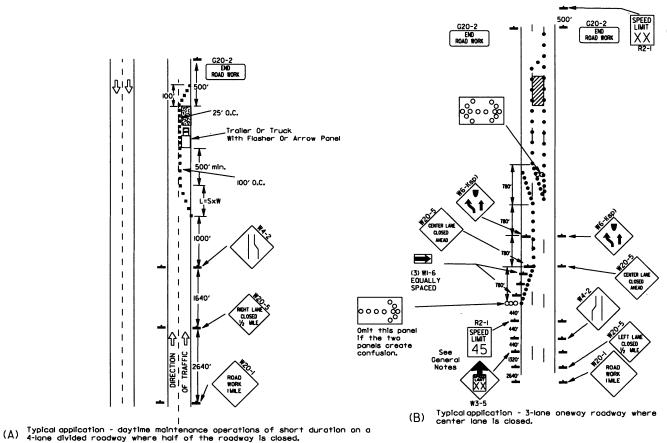
TRAFFIC DRUM RAISED PAVEMENT MARKER

CHANNELIZING DEVICE

PRISMATIC

0.52"

DETAIL OF RAISED PAVEMENT MARKERS



 When cones are used on freeways and multi-lane highways, they shall be 28" min During hours of darkness, 28" cones shall be used on all roadways, and shall be reflectorized in accordance with the M.U.T.C.D. CONES PLASTIC DRUM |→18"→| min 8" to 12"] 2' min 1 // // 3' min 8" to 12" 2' min 8" to 12" TYPE IBARRICADE NOTE: VERTICAL PANEL ROADWAY SURFACE

8" to 12" 8" to 12" 8" to 121 TYPE TEBARRICADE For all road closures, the Type III barricades shall be of sufficient length to extend across entire roadway. VERTICAL PANEL PLACEMENT Spacing = 2 x Posted Drop off > 3" FLAG Flag shall be of good grade

Channelizing devices

TRAFFIC CONTROL DEVICES NON-INTERSTATE VERTICAL TRAFFIC CONTROL LOCATION DIFFERENTIA ≤ 45 MPH > 45 MPH ≤ 2" CENTERLINE W8-11 AND LANE STRIPING W8-11 AND LANE STRIPING CENTERLINE STANDARD LANE CLOSURE STANDARD LANE CLOSURE EDGE OF TRAVELED LANE ≤ 3" EDGE OF SHOULDER AND VERTICAL PANELS AND VERTICAL PANELS EDGE OF TRAVELED LANE OR W8-17, EDGE LINE STRIPING, W8-17, FDGF LINE STRIPING. AND VERTICAL PANELS ≤ 6" EDGE OF SHOULDER AND VERTICAL PANELS EDGE OF TRAVELED LANE OR > 6" EDGE OF SHOULDER AND TRAFFIC DRUMS(1) AND TRAFFIC DRUMS(2) ≤ 12" EDGE OF TRAVELED LANE OR W8-17, EDGE LINE STRIPING RECAST CONCRETE BARRIER EDGE OF SHOULDER AND TRAFFIC DRUMS [1] & EDGE LINES EDGE OF TRAVELED LANE OR PRECAST CONCRETE BARRIER PRECAST CONCRETE BARRIER EDGE OF SHOULDER & EDGE LINES & EDGE LINES

INTERSTATE			
VERTICAL DIFFERENTIAL	LOCATION	TRAFFIC CONTROL	
≤ 2"	CENTERUNE	W8-11 AND LANE STRIPING	
≤ 2"	EDGE OF TRAVELED LANE OR	W8-9, EDGE LINE STRIPING,	
S 2"	EDGE OF SHOULDER	AND TRAFFIC DRUMS ⁽²⁾	
> 2"	EDGE OF TRAVELED LANE OR	W8-17, EDGE LINE STRIPING,	
≤ 6"	EDGE OF SHOULDER	AND TRAFFIC DRUMS(2)	
> 6"	EDGE OF TRAVELED LANE OR	PRECAST CONCRETE BARRIER	
>6"	EDGE OF SHOULDER	& EDGE LINES	

GENERAL NOTES:

1. WHEN THE SHOULDER AREA IS USED AS PART OF THE TRAVELED LANE AND THERE IS INSUFFICIENT WIDTH TO PLACE TRAFFIC DRUMS ON THE REMAINING SHOULDER WIDTH, THEN VERTICAL PANELS SHALL BE USED.

2. WHEN THERE IS INSUFFICIENT WIDTH TO PLACE TRAFFIC DRUMS ON THE REMAINING SHOULDER WIDTH, A STABILIZED WEDGE SHALL BE USED.

3. A STABILIZED WEDGE, WB-17 SIGN, EDGE LINE STRIPING, AND TRAFFIC DRUMS CAN BE USED IN LIEU OF PRECAST CONCRETE BARRIER WALL, IF AND WHERE DIRECTED BY THE ENGINEER.

4. W21-55, W21-50, AND/OR W21-55 SIGNS SHALL BE USED WHERE THE ROADWAY IS UNOBTRUCTED IF AND WHERE DIRECTED BY THE ENGINEER.

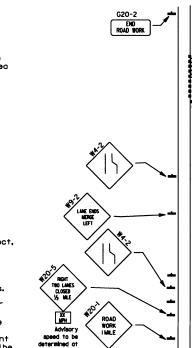
INTERSTATE AND NON-INTERSTATE			
FORESLOPE	HEIGHT	TRAFFIC CONTROL	
1:1	> 2 FT	PRECAST CONCRETE BARRIER	
2:1	≤ 5FT	TRAFFIC DRUMS	
2:1	> 5 FT	PRECAST CONCRETE BARRIER	
Flatter than 2:1	N/A	TRAFFIC DRUMS	

STOP SLOW PADDLE TRAVELED WAY STABILIZED WEDGE BACK 6" SERIES LEGEND 3NOR FLATTER COLORS LEGEND-BLACK BACKGROUND-ORANGE (REFL) LEGEND-WHITE (REFL)
BACKGROUND-RED (REFL) AREA OUTSIDE DIAMOND-BLACK STABILIZED WEDGE NOTE: MATERIALS FOR THE STABILIZED WEDGE SHALL MEET THE REQUIREMENTS PROVIDED IN SECTION 603.02 OF THE STANDARD SPECIFICATIONS. DETAIL OF SPLICES ESIGN BOLT & SPLICE BO NOTES: USE SPLICES ONLY WHEN NECESSARY
FOR INSTALLATION, TYPICAL INSTALLATION SHOULD HAVE NO SPLICES (SEE STD. DRAWING

DATE

NORMAL INSTALLATIONS WILL REQUIRE
I/4" DIA. BOLTS TO MOUNT SIGNS TO POST
AND 5/16" DIA. BOLTS TO ASSEMBLE THE
VARIOUS POST SUPPORTS. EACH OF THESE
BOLTS SHALL BE CARRIAGE BOLTS.

SIGN POSTS SHALL BE PAINTED GREEN® SIGNS SHALL NOT BE PAINTED, AND ALL SIGN POSTS SHALL BE PLUMB.



A review by the Roadway Design Division of the Highway Department will be required prior to implementing 3) WI-6 440' 440' 1320' 45

GROUND LINE

7-25-19 REVISED TRAFFIC CONTROL DEVICES DETAILS
9-2-15 REVISED NOTE 2 & REPLACED R2-5A WITH W3-5
10-15-09 ADDED REFERENCE TO MASH II-20-08 REVISED SIGN DESIGNATIONS
II-18-04 ADDED NOTE
IO-1-98 ADDED NOTE 4-03-97 ADDED (SP) TO W6-I& REVISED TRAFFIC CONTROL DEVICES NOTE 10-18-96 ADDED R55-1 10-12-95 MOVED UPPER SPLICE 6-8-95 REVISED SPLICE DETAIL, TEXT 6-8-95 2-2-95 REVISED PER PART VI, MUTCD, SEPT. 3, 1993 8-15-91 DRAWN AND PLACED IN USE

GROUND LINE

SPLICE

REVISION
ARKANSAS STATE HIGHWAY COMMISSION STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION STANDARD DRAWING TC-3

([)) Typical application - closing multiple lanes of a multilane highway.

XX 500° G20-2 END ROAD WORK Traffic Drums -25' O.C. \leftarrow (3) WI-6 EQUALLY SPACED 45 R2-I SPEED LIMIT

(C) Typical application - construction operations of intermediate to long term duration on a 4-lane divided roadway where half of the roadway is closed.

∞ Arrow Panel (If Required)

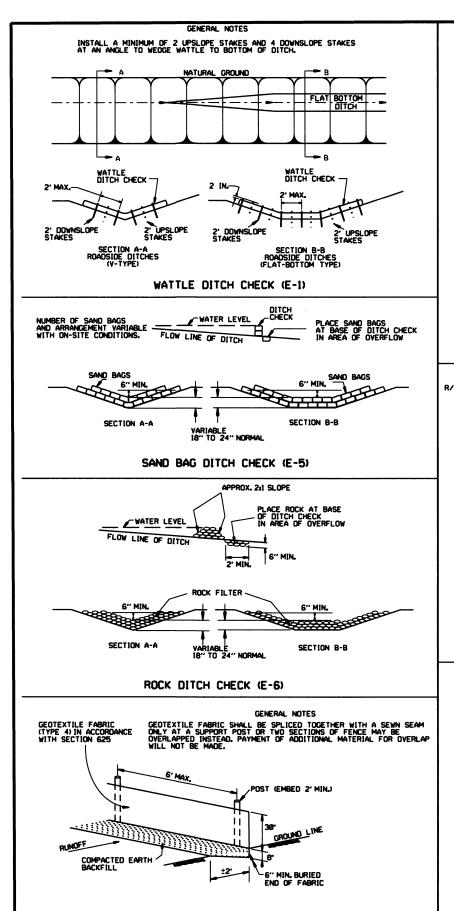
- Channelizing Device
- Traffic drum

GENERAL NOTES:

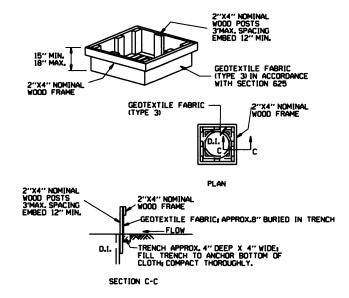
KEY:

- A speed limit reduction may be implemented ONLY when designated in the plan or when recommended by the Roadway Design Division.
- 2. When the existing speed limit is 55mph and the plans require a speed limit of 45mph, the R2-K55) shallbe omitted and the W3-5 shallbe installed at that location. Additional R2-I45mph speed limit signs shallbe installed at a maximum of limile intervals. At the end of the work area a R2-KXX) shallbe installed to match original speed limit.
- When the existing speed limit is 65mph and the plans require a speed limit of 55mph, the R2-1(45) shall be omitted. Additional R2-155mph speed limit signs shall be installed at a maximum of imile intervals. At the end of the work area a R2-1(XX) shall be installed to match
- 4. The maximum spacing between channelizing devices in a taper should be approximately equal in feet to the speed limit. Beyond the taper, maximum spacing shall be two times the speed limit or as directed by the Engineer.
- 5. Warning lights and/or flags may be mounted to signs or channelizing devices at night as needed.
- Pavement markings no longer applicable which might create confusion in the minds of vehicle operators shall be removed or obliterated as soon as practicable.
- 7. The G2O-isign will be required on jobs of over two miles in length. When the lane closure is not at the beginning of the project, the G2O-isign shall be erected I25' in advance of the job limit. Additional W2O-i (MILE) signs are not required in advance of lane closures that begin inside the project limits.
- 8. Flaggers shall use STOP/SLOW paddles for controlling traffic through work zones. Flags may be used only for emergency situations.
- All plastic drums and cones shall meet the requirements of NCHRP-350 or Manual For Assessing Safety Hardware (MASH).
- Molituation Assessing Satety narower et Mashi.

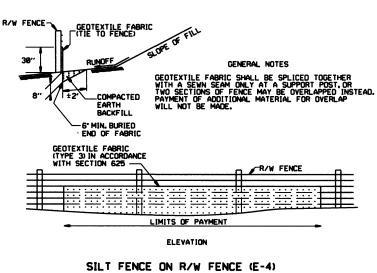
 10. Trailer mounted devices such as arrow panels and portable changeable message signs shall be delineated by affixing conspicuity material in a continuous line on the face of the trailer. When placed on or adjacent to the shoulder and not behind a positive barrier, these devices shall be delineated by placing five (5) traffic drums, equally spaced along the traffic side of the device.



SILT FENCE (E-11)



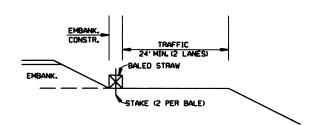
DROP INLET SILT FENCE (E-7)



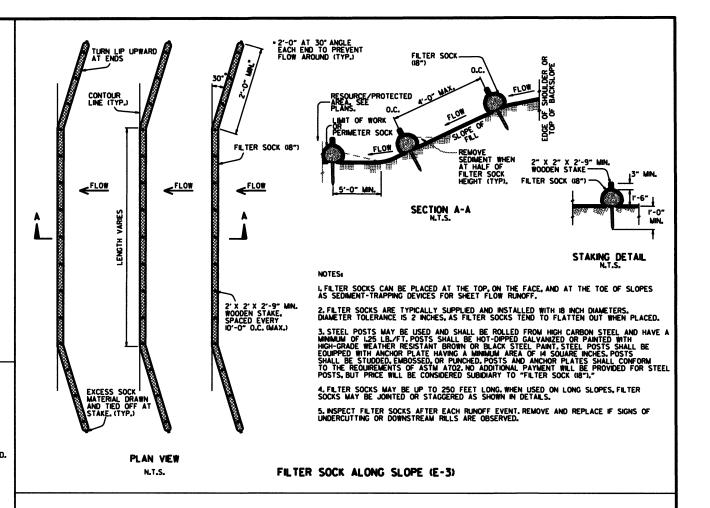
CENERAL NOTES 1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.

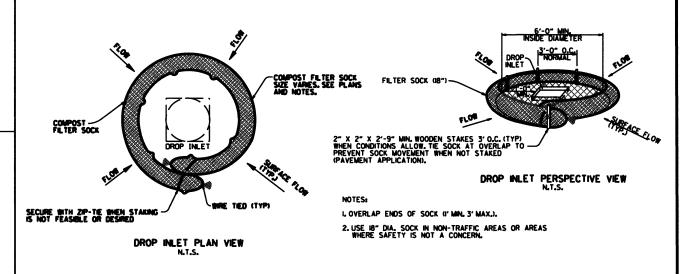
2. NO GAPS SHALL BE LEFT BETWEEN BALES.

3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED WILL BE MEASURED BY THE BALE IN PLACE AS AUTHORIZED BY THE ENGINEER AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER BALE FOR BALED STRAW DITCH CHECKS.



BALED STRAW FILTER BARRIER (E-2)





COMPOST FILTER SOCK DROP INLET PROTECTION (E-13)

11-16-17	ADDED FILTER SOCK E-3 AND E-13		
12-15-11	DELETED BALED STRAW DITCH CHECK & ADDED WATTLE DITCH CHECK		ARKANSAS STATE HIGHWAY COMMISSION
II-I8-98	ADDED NOTES		ARRANSAS STATE HIGHWAT COMMISSION
07-02-98	ADDED BALED STRAW FILTER BARRIER (E-2)	7-20-95	TEMPODADY EDOCION
07-20-95 07-15-94	REVISED SILT FENCE E-4 AND E-II REV. E-4 & E-II MIN. 13" BURIED END OF FABRIC	1-20-33	TEMPORARY EROSION
06-02-94	REVISED E-1,4,7 & Na DELETED E-2 & 3	6-2-94	CONTROL DEVICES
04-01-93	REDRAWN		CONTROL DEVICES
10-01-92	REDRAWN		
08-02-76	ISSUED R.D.M.	298-7-28-76	STANDARD DRAWING TEC-I
DATE	REVISION	FILMED	STANDARD DIVAMING TECT

